

# EXHIBIT 7

# Interagency Standards for Fire and Fire Aviation Operations

Department of the Interior  
Bureau of Land Management  
National Park Service  
U.S. Fish and Wildlife Service

Department of Agriculture  
Forest Service

## 2016



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<b>Chapter 1</b>	<b>Federal Wildland Fire Management Policy Overview</b>
<b>Chapter 2</b>	<b>BLM Program Organization and Responsibilities</b>
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**NATIONAL INTERAGENCY FIRE CENTER**

3833 S. Development Avenue  
Boise, Idaho 83705-5354  
January 1, 2016

To: Agency Personnel

From: Fire and Aviation Directors;  
Bureau of Land Management  
U.S. Forest Service  
U.S. Fish and Wildlife Service  
National Park Service

Subject: *Interagency Standards for Fire and Fire Aviation Operations*

The Fire and Aviation Directors of the Bureau of Land Management, U.S. Forest Service, U.S. Fish and Wildlife Service, and National Park Service have directed the Interagency Standards for Fire and Fire Aviation Operations Group (ISOG) to annually revise, publish, and distribute the federal *Interagency Standards for Fire and Fire Aviation Operations*, and issue errata to this document.

The *Interagency Standards for Fire and Fire Aviation Operations*, states, references, or supplements policy and provides program direction for Bureau of Land Management, U.S. Forest Service, U.S. Fish and Wildlife Service, and National Park Service fire and fire aviation program management.

Employees engaged in fire suppression and fire management activities will comply with interagency and agency-specific health, safety, and fire management policy documents.

For the Bureau of Land Management, this document provides policy and guidance as referenced in *BLM Manual Section (MS) 9200 Fire Program Management*.

For the USDA Forest Service, this document provides guidance for implementing safe and effective fire and aviation management operations based on policy in *Forest Service Manual 5100* and *5700*.

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For the U.S. Fish and Wildlife Service this document provides guidance for implementation of 621 FW 1.

For the National Park Service this document supplements *Reference Manual 18*.

This document addresses specific action items that are contained in the *Guidance for Implementation of Federal Wildland Fire Management Policy* (February 13, 2009).

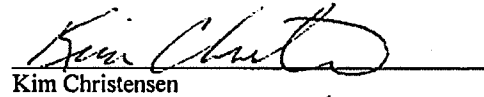
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Suggestions for modification of the publication should be sent to your agency representatives listed on this page.



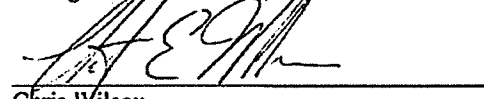
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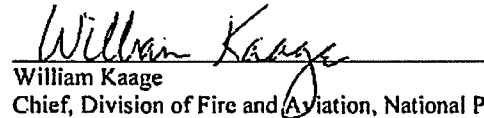
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*\*Some forms in PDF fillable format are available online at  
[http://www.nifc.gov/policies/pol\\_intgcnv\\_guides.html](http://www.nifc.gov/policies/pol_intgcnv_guides.html).*

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**Chapter 1****Federal Wildland Fire Management Policy Overview****Scope**

The *Interagency Standards for Fire and Fire Aviation Operations* states, references, or supplements policy for Bureau of Land Management, U.S. Forest Service, U.S. Fish and Wildlife Service, and National Park Service fire and fire aviation program management. Original source policy is stated or referenced throughout this handbook. This handbook attempts to quote verbatim, rather than to paraphrase policy that is stated elsewhere. It also attempts to limit duplication of source policy when a reference will suffice. *Interagency Standards for Fire and Fire Aviation Operations* is intended to comply with and support the Review and Update of the *1995 Federal Wildland Fire Management Policy (January 2001)* and the Guidance for Implementation of Federal Wildland Fire Management Policy (February 13, 2009 and other existing federal policy).

**Purpose**

The *Interagency Standards for Fire and Fire Aviation Operations* provides fire and fire aviation program management direction for Bureau of Land Management, U.S. Forest Service, U.S. Fish and Wildlife Service, and National Park Service managers. Employees engaged in fire management activities will continue to comply with all agency-specific health and safety policy. Other references, such as the *National Wildfire Coordinating Group (NWCG) Incident Response Pocket Guide* (PMS 461, NFES 1077) and the *NWCG Wildland Fire Incident Management Field Guide* (PMS 210) provide operational guidance.

***Review and Update of the 1995 Federal Wildland Fire Management Policy (January 2001)***

The *Review and Update of the 1995 Federal Wildland Fire Management Policy (January 2001)* is comprised of the following guiding principles and discrete policies. As a whole these principles and policy statements guide the philosophy, direction, and implementation of fire management planning, activities, and projects on federal lands.

**Guiding Principles of the Federal Wildland Fire Management Policy**

1. Firefighter and public safety is the first priority in every fire management activity.
2. The role of wildland fire as an essential ecological process and natural change agent will be incorporated into the planning process. Federal agency land and resource management plans set the objectives for the use and desired future condition of the various public lands.

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- 1 3. Fire Management Plans (FMPs), programs, and activities support Land and  
2 Resource Management Plans and their implementation.
- 3 4. Sound risk management is a foundation for all fire management activities.  
4 Risks and uncertainties relating to fire management activities must be  
5 understood, analyzed, communicated, and managed as they relate to the cost  
6 of either doing or not doing an activity. Net gains to the public benefit will  
7 be an important component of decisions.
- 8 5. Fire management programs and activities are economically viable, based  
9 upon values to be protected, costs, and land and resource management  
10 objectives. Federal agency administrators are adjusting and re-organizing  
11 programs to reduce costs and increase efficiencies. As part of this process,  
12 investments in fire management activities must be evaluated against other  
13 agency programs in order to effectively accomplish the overall mission, set  
14 short and long term priorities, and clarify management accountability.
- 15 6. FMPs and activities are based upon the best available science. Knowledge  
16 and experience are developed among all wildland fire management  
17 agencies. An active fire research program combined with interagency  
18 collaboration provides the means to make these tools available to all fire  
19 managers.
- 20 7. FMPs and activities incorporate public health and environmental quality  
21 considerations.
- 22 8. Federal, state, tribal, local, interagency, and international coordination and  
23 cooperation are essential. Increasing costs and smaller work forces require  
24 that public agencies pool their human resources to successfully deal with  
25 the ever-increasing and more complex fire management tasks. Full  
26 collaboration among federal agencies and between the federal agencies,  
27 international, state, tribal, and local governments, and private entities results  
28 in a mobile fire management work force available for the full range of  
29 public needs.
- 30 9. Standardization of policies and procedures among federal agencies is an  
31 ongoing objective. Consistency of plans and operations provides the  
32 fundamental platform upon which federal agencies can cooperate, integrate  
33 fire activities across agency boundaries, and provide leadership for  
34 cooperation with state, tribal, and local fire management organizations.
- 35 – *Review and Update of the 1995 Federal Wildland Fire Management*  
36 *Policy (January 2001)*

1 **Elements of the Federal Wildland Fire Management Policy**

2 **1. Safety**

3 Firefighter and public safety is the first priority. All FMPs and activities  
4 must reflect this commitment.

5 **2. Fire Management and Ecosystem Sustainability**

6 The full range of fire management activities will be used to help achieve  
7 ecosystem sustainability, including interrelated ecological, economic, and  
8 social components.

9 **3. Response to Wildland Fire**

10 Fire, as a critical natural process, will be integrated into land and resource  
11 management plans and activities on a landscape scale across agency  
12 boundaries. Response to wildland fires is based on ecological, social, and  
13 legal consequences of the fire. The circumstances under which a fire occurs,  
14 the likely consequences on firefighter and public safety and welfare, the  
15 natural and cultural resources, and the values to be protected dictate the  
16 appropriate response to fire.

17 **4. Use of Wildland Fire**

18 Wildland fire will be used to protect, maintain, and enhance resources and,  
19 as nearly as possible, be allowed to function in its natural ecological role.  
20 Use of fire will be based on approved FMPs and will follow specific  
21 prescriptions contained in operational plans.

22 **5. Rehabilitation and Restoration**

23 Rehabilitation and restoration efforts will be undertaken to protect and  
24 sustain ecosystems, public health, safety, and to help communities protect  
25 infrastructure.

26 **6. Protection Priorities**

27 The protection of human life is the single overriding suppression priority.  
28 Setting priorities among protecting public communities and community  
29 infrastructure, other property and improvements, and natural and cultural  
30 resources will be done based on the values to be protected, public health  
31 and safety, and the costs of protection. Once people have been committed to  
32 an incident, these human resources become the highest value to be  
33 protected.

34 **7. Wildland Urban Interface**

35 The operational roles of the federal agencies as partners in the wildland  
36 urban interface are wildland firefighting, hazard reduction, cooperative  
37 prevention, education, and technical assistance. Structural fire suppression  
38 is the responsibility of tribal, state, or local governments. Federal agencies  
39 may assist with exterior structural fire protection activities under formal fire  
40 protection agreements that specify the mutual responsibilities of the  
41 partners, including funding. (Some federal agencies have full structural  
42 protection authority for their facilities on lands they administer and may  
43 also enter into formal agreements to assist state and local governments with  
44 structural protection.)



- 1 **8. Planning**  
2 Every area with burnable vegetation must have an approved FMP. FMPs  
3 are strategic plans that define a program to manage wildland and prescribed  
4 fires based on the area's approved land management plan (LMP). FMPs  
5 must provide for firefighter and public safety; include fire management  
6 strategies, tactics, and alternatives; address values to be protected, and  
7 public health issues; and be consistent with resource management  
8 objectives, activities of the area, and environmental laws and regulations.
- 9 **9. Science**  
10 FMPs and fire programs will be based on a foundation of the best available  
11 science. Research will support ongoing efforts to increase our scientific  
12 knowledge of biological, physical, and sociological factors. Information  
13 needed to support fire management will be developed through an integrated  
14 interagency fire science program. Scientific results must be made available  
15 to managers in a timely manner and must be used in the development of  
16 LMPs, FMPs, and implementation plans.
- 17 **10. Preparedness**  
18 Agencies will ensure their capability to provide safe, cost-effective fire  
19 management programs in support of land and resource management plans  
20 through appropriate planning, staffing, training, equipment, and  
21 management oversight.
- 22 **11. Suppression**  
23 Fires are suppressed at minimum cost, considering firefighter and public  
24 safety, benefits and all values to be protected consistent with resource  
25 objectives.
- 26 **12. Prevention**  
27 Agencies will work together with their partners, other affected groups, and  
28 individuals to prevent unauthorized ignition of wildland fires.
- 29 **13. Standardization**  
30 Agencies will use compatible planning processes, funding mechanisms,  
31 training and qualification requirements, operational procedures, values-to-  
32 be protected methodologies, and public education programs for all fire  
33 management activities.
- 34 **14. Interagency Cooperation and Coordination**  
35 Fire management planning, preparedness, prevention, suppression,  
36 restoration and rehabilitation, monitoring, research, and education will be  
37 conducted on an interagency basis with the involvement of cooperators and  
38 partners.
- 39 **15. Communication and Education**  
40 Agencies will enhance knowledge and understanding of wildland fire  
41 management policies and practices through internal and external  
42 communication and education programs. These programs will be  
43 continuously improved through the timely and effective exchange of  
44 information among all affected agencies and organizations.

1 **16. Agency Administrator and Employee Roles**

2 Agency Administrators will ensure their employees are trained, certified,  
3 and made available to participate in the wildland fire program locally,  
4 regionally, and nationally as the situation demands. Employees with  
5 operational, administrative, or other skills will support the wildland fire  
6 programs as necessary. Agency Administrators are responsible and will be  
7 held accountable for making employees available.

8 **17. Evaluation**

9 Agencies will develop and implement a systematic method of evaluation to  
10 determine effectiveness of projects through implementation of the 2001  
11 Federal Wildland Fire Management Policy. The evaluation will assure  
12 accountability, facilitate resolution in areas of conflict, and identify resource  
13 shortages and agency priorities.

14 *– Review and Update of the 1995 Federal Wildland Fire Management Policy*  
15 *(January 2001)*

16 ***Guidance for Implementation of Federal Wildland Fire Management Policy***  
17 ***(February 13, 2009)***

18 On February 13, 2009, the Fire Executive Council (FEC) approved guidance for  
19 the implementation of federal wildland fire management policy. This guidance  
20 provides for consistent implementation of the *Review and Update of the 1995*  
21 *Federal Wildland Fire Management Policy (January 2001)*, as directed by the  
22 Wildland Fire Leadership Council.

23 *– Guidance for Implementation of Federal Wildland Fire Management*  
24 *Policy (February 13, 2009), page 3.*

25 The following guidelines should be used to provide consistent implementation  
26 of federal wildland fire policy:

- 27 1. Wildland fire management agencies will use common standards for all  
28 aspects of their fire management programs to facilitate effective  
29 collaboration among cooperating agencies.
- 30 2. Agencies and bureaus will review, update, and develop agreements that  
31 clarify the jurisdictional inter-relationships and define the roles and  
32 responsibilities among local, state, tribal, and federal fire protection entities.
- 33 3. Responses to wildland fire will be coordinated across levels of government  
34 regardless of the jurisdiction at the ignition source.
- 35 4. Fire Management Plans will be intergovernmental in scope and developed  
36 on a landscape scale.

- 1 5. Wildland fire is a general term describing any non-structure fire that occurs  
2 in the wildland. Wildland fires are categorized into two distinct types:
  - 3 a. Wildfires – Unplanned ignitions or prescribed fires that are declared  
4 wildfires.
  - 5 b. Prescribed Fires – Planned ignitions.
- 6 6. A wildland fire may be concurrently managed for one or more objectives  
7 and objectives can change as the fire spreads across the landscape.  
8 Objectives are affected by changes in fuels, weather, topography; varying  
9 social understanding and tolerance; and involvement of other governmental  
10 jurisdictions having different missions and objectives.
- 11 7. Management response to a wildland fire on federal land is based on  
12 objectives established in the applicable Land/Resource Management Plan,  
13 and/or the Fire Management Plan.
- 14 8. Initial action on human-caused wildfire will be to suppress the fire at the  
15 lowest cost with the fewest negative consequences with respect to  
16 firefighter and public safety.
- 17 9. Managers will use a decision support process to guide and document  
18 wildfire management decisions. The process will provide situational  
19 assessment, analyze hazards and risk, define implementation actions, and  
20 document decisions and rationale for those decisions.
- 21 – *Guidance for Implementation of Federal Wildland Fire Management*  
22 *Policy (February 13, 2009), page 7.*

## 23 Definitions

### 24 Wildland Fire

25 Any non-structure fire that occurs in vegetation or natural fuels. Wildland fire  
26 includes prescribed fire and wildfire.

### 27 Fire Type

28 Wildland fires are categorized into two distinct types:

- 29 • Wildfires – Unplanned ignitions or prescribed fires that are declared  
30 wildfires.
- 31 • Prescribed fires – Planned ignition.

### 32 Wildfire Management Objectives

33 A wildfire may be concurrently managed for one or more objectives as specified  
34 in the L/RMP and FMP. Objectives can change as the fire spreads across the  
35 landscape and are affected by changes in fuels, weather, and/or topography;  
36 varying social understanding and tolerance; and involvement of other  
37 governmental jurisdictions having different missions and objectives.

- 38 • *FS – All wildfires will have a protection objective.*

**1 Response to Wildfire**

2 Response to wildfire will be coordinated with all affected agencies/cooperators  
3 regardless of the jurisdiction at the ignition point.

4 Management response to a wildfire on federal land is based on objectives  
5 established in the applicable L/RMP and FMP. A wildfire may be concurrently  
6 managed for more than one objective. Unplanned natural ignitions may be  
7 managed to achieve L/RMP and FMP objectives when risk is within acceptable  
8 limits.

- 9 • *BLM – All known human caused fires, except escaped prescribed fires, will*  
10 *be suppressed in every instance and will not be managed for resource*  
11 *benefits.*
- 12 • *NPS – Refer to RM-18, Chapter 2 for further guidance.*
- 13 • *FWS – All escaped prescribed fires will be suppressed. When reporting in*  
14 *FMIS, the cause of the wildfire will be “Escaped RX” and the narrative will*  
15 *document the link between the prescribed fire and the wildfire.*
- 16 • *FS – Human caused fires and trespass fires must be suppressed safely and*  
17 *cost effectively and must not be managed for resource benefits.*

18 Response to wildfire is based on ecological, social, and legal consequences of  
19 the fire. The appropriate response to the fire is dictated by:

- 20 • The circumstances under which a fire occurs;
- 21 • The likely consequences to firefighter/public safety and welfare; and
- 22 • The natural/cultural resource values to be protected.

**23 Initial Response**

24 The initial decisions and actions taken in reaction to a reported incident.

**25 Initial Attack (IA)**

26 A preplanned response to a wildfire given the wildfire’s potential. Initial Attack  
27 may include size up, patrolling, monitoring, holding action or suppression.

**28 Extended Attack**

29 Actions taken on a wildfire that has exceeded the initial response.

**30 Extended Attack Incident**

31 An incident that exceeds the capability of the initial attack resources and/or  
32 organization to successfully manage the incident to conclusion.

**33 Suppression**

34 Management action to extinguish a fire or confine fire spread beginning with its  
35 discovery.

**36 Protection**

37 The actions taken to mitigate the adverse effects of fire on environmental, social,  
38 political, economic, and community values at risk.

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**1 Prescribed Fire**

2 Any fire intentionally ignited by management actions in accordance with  
3 applicable laws, policies, and regulations to meet specific objectives.

**4 Fire Operations Doctrine****5 Purpose of Fire Operations Doctrine**

6 Fire operations doctrine states the fundamental principles on the subject of fire  
7 operations. This doctrine establishes a particular way of thinking about fire  
8 operations. It provides a philosophy for leading firefighters in fire operations, a  
9 mandate for professionalism, and a common language. Fire operations doctrine  
10 does not consist of procedures to be applied to specific situations so much as it  
11 sets forth general guidance that requires judgment in application.

**12 The Nature of Fire Operations**

13 Fire is a complex, dynamic, and often unpredictable phenomenon. Fire  
14 operations require mobilizing a complex organization that includes  
15 management, command, support, and firefighting personnel, as well as aircraft,  
16 vehicles, machinery, and communications equipment. While the magnitude and  
17 complexity of the fire itself and of the human response to it will vary, the fact  
18 that fire operations are inherently dangerous will never change. A firefighter  
19 utilizing the best available science, equipment, training, and working within the  
20 scope of agency doctrine and policy, can still suffer serious injury or death.

**21 Wildland Fire Operations Risk Management**

22 The primary means by which we prevent accidents in wildland fire operations is  
23 through aggressive risk management. Our safety philosophy acknowledges that  
24 while the ideal level of risk may be zero, a hazard free work environment is not  
25 a reasonable or achievable goal in fire operations. Through organized,  
26 comprehensive, and systematic risk management, we will determine the  
27 acceptable level of risk that allows us to provide for safety yet still achieve fire  
28 operations objectives. Risk management is intended to minimize the number of  
29 injuries or fatalities experienced by wildland firefighters.

**30 Fire Preparedness**

31 Fire preparedness is the state of being ready to provide an appropriate response  
32 to wildland fires based on identified objectives. Preparedness is the result of  
33 activities that are planned and implemented prior to fire ignitions. Preparedness  
34 requires identifying necessary firefighting capabilities and implementing  
35 coordinated programs to develop those capabilities. Preparedness requires a  
36 continuous process of developing and maintaining firefighting infrastructure,  
37 predicting fire activity, implementing prevention activities, identifying values to  
38 be protected, hiring, training, equipping, pre-positioning, and deploying  
39 firefighters and equipment, evaluating performance, correcting deficiencies, and  
40 improving operations. All preparedness activities should be focused on

1 developing fire operations capabilities and on performing successful fire  
2 operations.

### 3 **Fire Operations Command Philosophy**

4 It is essential that our philosophy of command support the way we conduct fire  
5 operations. First and foremost, in order to generate effective decision making in  
6 fire operations, and to cope with the unpredictable nature of fire, commanders'  
7 intent must be lucid and unambiguous, and lines of authority must be clearly  
8 articulated and understood. Subordinate commanders must make decisions on  
9 their own initiative based on their understanding of their commander's intent. A  
10 competent subordinate commander who is at the point of decision may  
11 understand a situation more clearly than a senior commander some distance  
12 removed. In this case, the subordinate commander must have the freedom to  
13 take decisive action directed toward the accomplishment of operational  
14 objectives. However, this does not imply that unity of effort does not exist, or  
15 that actions are not coordinated. Unity of effort requires coordination and  
16 cooperation among all forces toward a commonly understood objective. Unified,  
17 coordinated action, whether between adjacent single resources on the fireline or  
18 between the highest command level and the most subordinate firefighter, is  
19 critical to successful fire operations.

### 20 **Fire Leadership**

21 Leadership is the art of influencing people in order to achieve a result. The most  
22 essential element for success in the wildland fire service is good leadership.  
23 Good leaders provide purpose, direction, and motivation for wildland  
24 firefighters working to accomplish difficult tasks under dangerous, stressful  
25 circumstances. Leaders often face difficult problems to which there are no  
26 simple, clear-cut, by-the-book solutions. In these situations, leaders must use  
27 their knowledge, skill, experience, education, values, and judgment to make  
28 decisions and to take or direct action - in short, to provide leadership. All  
29 firefighters, regardless of position, must provide leadership.

### 30 **Fire Suppression**

31 The purpose of fire suppression is to put the fire out in a safe, effective, and  
32 efficient manner. Fires are easier and less expensive to suppress when they are  
33 small. When the management goal is full suppression, aggressive initial attack is  
34 the single most important method to ensure the safety of firefighters and the  
35 public and to limit suppression costs. Aggressive initial attack provides the  
36 Incident Commander maximum flexibility in suppression operations. Successful  
37 initial attack relies on speed and appropriate force. All aspects of fire  
38 suppression benefit from this philosophy. Planning, organizing, and  
39 implementing fire suppression operations should always meet the objective of  
40 directly, quickly, and economically contributing to the suppression effort. Every  
41 firefighter, whether in a management, command, support, or direct suppression  
42 role, should be committed to maximizing the speed and efficiency with which  
43 the most capable firefighters can engage in suppression action. When the

- 1 management goal is other than full suppression, or when conditions dictate a
- 2 limited suppression response, decisiveness is still essential and an aggressive
- 3 approach toward accomplishment of objectives is still critical.

#### 4 **Principles of Suppression Operations**

- 5 The primary means by which we implement command decisions and maintain
- 6 unity of action is through the use of common principles of suppression
- 7 operations. These principles guide our fundamental fire suppression practices,
- 8 behaviors, and customs, and are mutually understood at every level of
- 9 command. They include Risk Management, Standard Firefighting Orders and
- 10 Watch Out Situations, LCES, and the Downhill Line Construction Checklist.
- 11 These principles are fundamental to how we perform fire suppression operations
- 12 and are intended to improve decision making and firefighter safety. They are not
- 13 absolute rules. They require judgment in application.

#### 14 **Principles of Fire Suppression Action**

- 15 The principles of fire suppression action provide a framework for developing
- 16 fire suppression strategy and for conducting fire suppression operations. Again,
- 17 these are not absolute or immutable rules. These five principles provide a
- 18 consistent set of considerations with which to evaluate decisions, plans, and
- 19 actions in different situations.

##### 20 1. **Objective**

- 21 The principle of the objective is to direct every fire suppression operation
- 22 toward a clearly defined, decisive, and obtainable objective. The purpose of
- 23 fire suppression operations is to achieve the suppression objectives that
- 24 support the overall management goals for the fire.

##### 25 2. **Speed and Focus**

- 26 Speed is rapidity of action. Focus is the convergence of appropriate
- 27 resources at the desired position to initiate action. The principle of speed
- 28 and focus maintains that rapidly deploying and concentrating firefighting
- 29 resources, in a calculated fashion, at the decisive time and place increases
- 30 the likelihood of successful suppression actions.

##### 31 3. **Positioning**

- 32 The principle of positioning maintains that rapid, flexible, and opportunistic
- 33 movement increases the effectiveness of fire suppression resources.
- 34 Positioning ranges from single resource offensive or defensive reactions to
- 35 dynamic fire conditions, to pre-positioning of multiple resources based on
- 36 predicted activity and values at risk. Positioning should always be
- 37 undertaken with speed and focus in mind and with sufficient time for
- 38 positioning to occur before operations begin.

##### 39 4. **Simplicity**

- 40 The principle of simplicity is that clear, uncomplicated plans and concise
- 41 orders maximize effectiveness and minimize confusion. Simplicity
- 42 contributes to successful actions.

1 5. **Safety**

2 The principle of safety maintains that ensuring the safety of firefighters and  
3 other persons affected by fire operations is fundamental to successful  
4 suppression action. Safety not only contributes to successful actions, it is  
5 indispensable to them.

6 **Cost Effective Fire Operations**

7 Maximizing the cost effectiveness of any fire operation is the responsibility of  
8 all involved, including those that authorize, direct, or implement those  
9 operations. Cost effectiveness is the most economical use of the suppression  
10 resources necessary to accomplish mission objectives. Accomplishing fire  
11 operations objectives safely and efficiently will not be sacrificed for the sole  
12 purpose of "cost savings." Care will be taken to ensure that suppression  
13 expenditures are commensurate with values to be protected, while understanding  
14 that other factors may influence spending decisions, including the social,  
15 political, economic, and biophysical environments.

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**Chapter 2**  
**BLM Wildland Fire and Aviation Program**  
**Organization and Responsibilities**

**4 Introduction**

This chapter provides policy and guidance for Bureau of Land Management fire and aviation program management as referenced in *BLM Manual Section (MS) 9200 Fire Program Management*. These standards are based on Department of Interior (DOI) and Bureau policy. They are intended to ensure safe, consistent, efficient, and effective fire and aviation operations for a fire organization to manage state and/or local unit fire workload or meet approved national program resource allocations. BLM employees engaged in fire management activities (including fire program management, fire suppression, and fire program/incident support) will adhere to the standards in this document. This chapter will be reviewed and updated annually.

**15 BLM Fire Operations Website**

BLM Fire Operations maintains a website that hosts operational, informational, and policy-related documents. The website also contains information about the National Fire Equipment Program, the BLM Fire Training Unit, and the BLM Fire Operations Group and its subcommittees. This website is referenced throughout this document. The address of the BLM Fire Operations website is [http://web.blm.gov/internal/fire/fire\\_ops/index.html](http://web.blm.gov/internal/fire/fire_ops/index.html).

**22 National Wildfire Coordinating Group (NWCG) Relationship to BLM**

NWCG is a national group whose function is to provide leadership and establish, implement, maintain and communicate policy, standards, guidelines, and qualifications for wildland fire program management and support the National Incident Management System. Refer to Chapter 8 for more information.

BLM provides a representative to the NWCG Executive Board and representatives to various NWCG committees and subcommittees. These representatives are responsible for accomplishing tasks as directed by the NWCG Executive Board, ensuring proposed policies, guidelines, or standards are reviewed by pertinent agency personnel prior to implementation by NWCG, and providing a consolidated BLM position during NWCG decision-making processes.

NWCG policies, guidelines or standards, if adopted by BLM, are implemented through the BLM directive system.

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**1 Fire and Aviation Directorate**

2 The BLM Fire and Aviation Directorate (FAD) consists of the Assistant  
3 Director (FA), Deputy Assistant Director (FA), Fire Operations Division Chief,  
4 Aviation Division Chief, Fire Planning and Fuels Management Division Chief,  
5 Support Services Division Chief, Budget and Evaluation Chief, External Affairs  
6 Division Chief, and the Equal Employment Opportunity Manager.

**7 Program Manager Responsibilities****8 Assistant Director, Fire and Aviation (FA-100)****9 Deputy Assistant Director, Fire and Aviation (FA-100)**

- 10 • Develops policies and standards for firefighting safety, training, prevention,  
11 suppression, and use of wildland fires on Bureau lands.
- 12 • Provides guidance to State Directors on the use of prescribed fire and fuels  
13 management to achieve hazardous fuels reduction and resource  
14 management objectives.
- 15 • Integrates fire and aviation management procedures into natural resource  
16 management.
- 17 • Establishes position competencies, standards, and minimum qualifications  
18 for Fire Management Officers, Fire Management Specialists, and leaders  
19 based on federal interagency standards.
- 20 • Implements the fire planning and funding allocation process, and develops  
21 procedures and standards for the distribution of program resources.
- 22 • Reviews and evaluates state fire and aviation management programs.
- 23 • Represents the BLM in the coordination of overall fire and aviation  
24 management activities at National Interagency Fire Center (NIFC), on intra-  
25 and interagency fire committees, groups, and working teams.
- 26 • In conjunction with federal fire directors, establishes priorities for  
27 assignment of critical resources during wildland fire emergencies.
- 28 • Initiates or participates on Boards of Review concerning actions taken on  
29 selected wildland fires.
- 30 • Negotiates cooperative agreements and/or modifications of existing national  
31 level agreements to improve fire and aviation management activities on  
32 Bureau lands.
- 33 • Reviews funding requests for severity, hazardous fuel reduction, and  
34 emergency rehabilitation of Bureau lands damaged by wildland fires; makes  
35 determinations on funding levels and recommends approval to the BLM  
36 Director.
- 37 • Serves as the Bureau's focal point for the Large Fire Cost Review (LFCR)  
38 process and initiates, facilitates, and provides oversight for the LFCR  
39 process. The AD coordinates with the appropriate state director, assembles  
40 a LFCR team, provides a delegation of authority, initiates the LFCR, and  
41 provides briefings to the Bureau Director, as appropriate.

- 1 • Serves as designated contact for the United States Department of the  
2 Treasury for the certification and revocation of Certifying Officers and  
3 Assistant Disbursing Officers (CO/ADO) and Designated Officials for  
4 emergency incident payments.
- 5 • Supervises the Senior Program Advisor position located at the Washington  
6 Headquarters Office. This position provides connectivity between the  
7 Director's Office, the other BLM Directorates, the BLM State Offices, the  
8 Department's other offices such as the Office of Wildland Fire, and the  
9 Forest Service National Office in D.C. and maintains a day-to-day physical  
10 presence with the rest of the Bureau's national level leadership to fully  
11 integrate programs and leverage capability. This position maintains  
12 frequent, routine contact with those organizations on a variety of topics  
13 ranging from current fire activity to strategic interdisciplinary, interagency,  
14 or intergovernmental policy and processes for the protection of lives,  
15 property, and the resources.
- 16 **Equal Employment Opportunity Manager (EEO) (FA-102)**
- 17 • Manages the Equal Employment Opportunity (EEO) program in accordance  
18 with legal, regulatory, and policy requirements.
- 19 • Manages and directs the Counseling Program, and Alternative Dispute  
20 Resolution (ADR) programs, in accordance with Equal Employment  
21 Opportunity Commission (EEOC) regulations and BLM policy as well as  
22 for other NIFC agencies.
- 23 • Advises managers and aggrieved persons of employee rights and  
24 responsibilities, procedural options and timeframes in conflict situations and  
25 formulates proposed resolutions.
- 26 • Negotiates with managers, aggrieved persons and their representatives to  
27 informally resolve EEO matters, and executes final settlement agreements.
- 28 • Manages the Affirmative Employment Program (AEP).
- 29 • Develops and maintains the accessibility program for the disabled, required  
30 under Section 504 of the Rehabilitation Act of 1973, as amended, and the  
31 Americans with Disability Act (ADA of 1990).
- 32 • Conducts analyses to evaluate progress in meeting equal employment  
33 opportunity program goals.
- 34 • Administers training activities for the organization.
- 35 • Provides managers and supervisors with guidance and advice on issues  
36 related to EEO/civil rights program activities.
- 37 • Represents the organization in meetings with public and private groups,  
38 universities, minority and women's organizations, other DOI components,  
39 and other federal agencies.
- 40 **Support Services Division Chief (FA-200)**
- 41 • Manages all aspects of the business responsibilities and programs under the  
42 jurisdiction of NIFC for the benefit of the BLM and cooperating agencies.

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- 1 • Directs the accomplishment of the approved operating budget, exercising  
2 appropriate control to assure program quality goals are met according to  
3 established standards.
  - 4 • Interprets Departmental and Bureau policies and directives as they affect  
5 BLM-NIFC programs.
  - 6 • Participates in the BLM-wide and interagency task force activities as a  
7 leader or member.
  - 8 • Responsible for the NIFC Site and Facilities Management, NIFC Safety and  
9 Health program, Business Practices, Human Resources, Information  
10 Resource Management, Maintenance and Security, National Radio Cache,  
11 Remote Automated Weather Stations (RAWS) program, and  
12 Transportation.
  - 13 • Is a focal point and frequent spokesperson for the Bureau and the national  
14 level management, assures a public awareness of Bureau programs and  
15 coordinates with key officials in affected federal agencies, states, and  
16 occasionally with other entities such as: foreign governments, private  
17 individuals, private organizations, vendors, suppliers, transportation groups,  
18 airlines, and others.
  - 19 • Supports the implementation of the BLM's Automation/Modernization/  
20 Information Resource Management (IRM) initiatives as they apply to  
21 BLM/NIFC.
- 22 **Fire Operations Division Chief (FA-300)**
- 23 • Serves as the principal technical expert on fire operations to the Assistant  
24 Director (FA), Deputy Assistant Director (FA), and to the BLM state fire  
25 programs.
  - 26 • Provides the Assistant Director (FA) and the Deputy Assistant Director  
27 (FA) technical advice, operational oversight, and leadership in all aspects of  
28 fire operations.
  - 29 • Performs annual fire program preparedness reviews. Evaluates compliance  
30 with policies, objectives, and standards. Assesses operational readiness and  
31 provides technical assistance to solve identified problems. Performs other  
32 operations reviews as required/requested.
  - 33 • Assists the Assistant Director (FA) and Deputy Assistant Director (FA), in  
34 the formulation and establishment of national policies and programs  
35 pertinent to wildland fire preparedness, suppression, shared national  
36 resources, safety, training, and equipment.
  - 37 • Serves as the BLM technical expert on national interagency mobilization  
38 and utilization of fire suppression resources.
  - 39 • Develops national plans, standards, and technical guides for the BLM and  
40 interagency fire management operations.
  - 41 • Develops and implements safety programs, accident investigation  
42 procedures, and safety trend analyses.
  - 43 • Supervises the Branch of Radio Operations (FA-350) which is responsible  
44 for policy, guidance, and governance, as well as tactical and operational

- 1 national radio planning for the Bureau to meet the needs of all business  
2 users (law enforcement (LE), fire, cadastral survey, recreation, and natural  
3 resource programs). FA-350 is responsible for managing the BLM's  
4 nationwide radio frequency (RF) assignments; conducting management  
5 control reviews; user satisfaction surveys; Exhibit 300 Business Case;  
6 operational analysis; equipment test plans; testing resources for the DOI  
7 Technical Service Center (TSC); implementation of facilities standards, and  
8 management of equipment lifecycles.
- 9 • Serves as the BLM representative to the National Multi Agency  
10 Coordinating Group (NMAC).
  - 11 • Certifies Area Command and Type 1 Command and General Staff task  
12 books and red cards for the national and Washington offices.
  - 13 • Provide written daily National Multi-Agency Coordinating Group briefings  
14 to the Assistant Director and Deputy Assistant Director, Fire and Aviation;  
15 BLM state fire management officers; and geographic MAC members in  
16 FIAT state at National Preparedness Level (PL) 3 and above.

17 **Budget and Evaluation Division Chief (FA-400)**

- 18 • Serves as principal budget advisor of the wildland fire program to the  
19 Assistant Director (FA), Deputy Assistant Director (FA), BLM Fire  
20 Leadership Team, and to other BLM staffs.
- 21 • Serves as primary BLM representative in the DOI Wildland Fire Budget  
22 formulation and execution process.
- 23 • Represents BLM on the DOI Fire Budget Team and at other interagency  
24 meetings in regards to budget related policies, requirements, procedures,  
25 and reports.
- 26 • Coordinates all budget activities between Washington Office, Office of  
27 Wildland Fire, and Fire and Aviation.
- 28 • Provides national oversight for BLM Wildland Fire program budget  
29 formulation, justification, and execution. Responsible for the development  
30 and preparation of the budget justifications, Planning Target Allocation,  
31 Annual Work Plan, capability statements, effects statements, and  
32 congressional responses.
- 33 • Reviews NIFC offices at mid-year, third quarter, and end-of-year and  
34 distributes available funding in accordance with BLM policy.
- 35 • Provides oversight of Casual Payment Center. Ensures all DOI casual  
36 payments are processed in a timely and cost-effective manner adhering to  
37 procedures and practices set forth by the DOI agencies.

38 **Aviation Division Chief (FA-500)**

- 39 • Serves as principal aviation advisor to the Assistant Director (FA), Deputy  
40 Assistant Director (FA), other staffs, states, and to the DOI.
- 41 • Identifies and develops Bureau aviation policies, methods and procedures,  
42 as well as standardized technical specifications for a variety of specialized  
43 firefighting missions for incorporation into the directives system.

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- 1 • Coordinates aviation-related activities and services between the Washington  
2 Office (WO) and states with other wildland firefighting, regulatory,  
3 investigative, and military agencies.
  - 4 • Coordinates provision and use of aviation resources with business practices,  
5 aviation user staffs at the WO, and state office level.
  - 6 • Represents the BLM at interagency meetings, in interagency committees  
7 developing government-wide aviation policies, requirements, procedures  
8 and reports, at aviation industry meetings and conventions.
  - 9 • Develops and implements aviation safety programs, accident investigation  
10 procedures, and aviation safety trend analyses.
  - 11 • Plans and conducts reviews and evaluations of state aviation programs.
  - 12 • Plans and conducts technical and managerial analyses relating to the  
13 identification of aviation organization and resources appropriate for agency  
14 use, cost-effectiveness of aviation firefighting, other specialized missions,  
15 aircraft acquisition requirements, equipment developmental needs, and  
16 related areas.
- 17 **Fire Planning and Fuels Management Division Chief (FA-600)**
- 18 • Responsible for the development and implementation of the Bureau-wide  
19 fire planning program. Provides guidance and assistance in administering  
20 the technical and operational aspects of BLM's fire planning program at the  
21 state, regional, and agency levels for the accurate identification of program  
22 funding needs. Checks for accuracy in computations with instructions and  
23 policies.
  - 24 • Responsible for the development and coordination of the BLM's prescribed  
25 fire, fuels management, fire trespass, and fire prevention annual programs,  
26 and recommends the distribution of program funds to regions.
  - 27 • Tracks all fuels management fund distributions and prior year carryover  
28 funds. Develops and maintains a national database for fuels management  
29 accomplishments for Indian Trust Lands.
  - 30 • Analyzes hazards and risks in the wildland urban interface using fuels  
31 modification or reduction techniques, and develops recommendations for  
32 Bureauwide application. Examines and analyzes laws and regulations  
33 pertaining to prescribed fire use/fuels management in the wildland urban  
34 interface, and works with top level Bureau representatives, states, and rural  
35 fire districts to recommend policy which will achieve uniformity.
  - 36 • Serves as the BLM's primary subject matter expert for National Fire  
37 Management Analysis System (NFMAS), fire planning, Personal Computer  
38 Historical Analysis (PCHA), Geographic Information System (GIS), Global  
39 Positioning System (GPS), Lightning Detection System (LDS), Weather  
40 Information Management System (WIMS), Wildland Fire Decision Support  
41 System (WFDSS), prescribed fire software programs, and provides user  
42 training in those applications.

**1 External Affairs Division Chief (FA-700)**

- 2 • Responsible for coordination of information between the Department of the  
3 Interior and Office of Wildland Fire to the BLM, BIA, USFWS, NPS,  
4 USFS, National Association State Foresters (NASF), and Federal  
5 Emergency Management Agency (FEMA) at NIFC.
- 6 • Responsible for coordination of the responses to: Office of Management  
7 and Budget (OMB), Government Accountability Office (GAO),  
8 congressional, other elected officials, and other external inquiries among  
9 agencies and departments, establishing and maintaining cooperative  
10 relationships resulting in quality work products.
- 11 • Serves as the primary manager of the External Affairs program for the  
12 NIFC.
- 13 • Serves as the primary point of contact to external audiences regarding  
14 BLM, and at times, DOI fire and aviation policy.
- 15 • Serves as the primary point of contact with the BLM Washington Office  
16 and DOI external affairs and communication offices.
- 17 • Develops recommendations pertaining to External Affairs aspects for BLM  
18 Fire and Aviation policies.
- 19 • Initiates External Affairs policies and procedures pertaining to Fire and  
20 Aviation for adoption at the department level in conjunction with other  
21 departments and agencies.
- 22 • Serves as personal and direct representative of the Assistant Director, Fire  
23 and Aviation at various meetings and functions with members of congress  
24 and staff, state governors and legislatures, officials of local, state and  
25 federal agencies, major private corporations, public and private interest  
26 groups, and foreign governments.
- 27 • Serves as external affairs expert and consultant to the Assistant Director,  
28 (FA) and the Deputy Assistant Director (FA) on a wide variety of issues and  
29 policies of controversial nature, providing analysis and advice on public  
30 reaction to major policy and program issues.
- 31 • Responsible for management and contact of all NIFC and BLM FA public  
32 expressions, including printed material, video productions, and social media  
33 products.
- 34 • Coordinates with BLM legislative affairs on proposed legislation regarding  
35 FA.

**36 State Director**

37 The State Director is responsible for fire management programs and activities  
38 within the state. The State Director will ensure that employees in their  
39 organization meet the requirements outlined in the *Interagency Fire Program*  
40 *Management Qualifications Standards and Guide* at: <http://www.ifpm.nifc.gov/>  
41 and will ensure training is completed to support delegations to line managers  
42 and principal actings.

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1 **District/Field Manager**

2 The District/Field Manager is responsible to the State Director for the safe and  
 3 efficient implementation of fire management activities within their unit. This  
 4 includes cooperative activities with other agencies or landowners in accordance  
 5 with delegations of authorities. The District/Field Manager and their principal  
 6 actings will meet the required elements outlined in the Management  
 7 Performance Requirements for Fire Operations below.

8 **Management Performance Requirements for Fire Operations**

PERFORMANCE REQUIRED	State Director/ Associate	District/ Field Manager
1. Ensures Fire Management Plans (FMPs) reflect the agency commitment to firefighter and public safety while utilizing the full range of fire management activities available for ecosystem sustainability.	X	X
2. Establishes a fire organization to meet state/unit fire management objectives based on national, state, and local priorities and within national allocations.	X	X
3. Develops fire management standards and constraints that are compliant with agency fire policies.	X	X
4. Ensures incident responses will be based on current and approved Resource Management Plans (RMPs) and FMPs.	X	X
5. Completes fire training as outlined in Instruction Memorandum No. FA IM-2016-007 within two years of being appointed to a designated management position. Ensures that personnel delegated fire program responsibilities have completed fire training requirements.		X
6. Publishes decisions in the Wildland Fire Decision Support System (WFDSS) as per Chapter 2 and Chapter 11.	X	X
7. Provides a written Delegation of Authority to FMOs that gives them an adequate level of operational authority. If fire management responsibilities are zoned, ensures that all appropriate Agency Administrators have signed the delegation.	X	X

PERFORMANCE REQUIRED	State Director/ Associate	District/ Field Manager
8. Ensures only trained, certified fire and non-fire personnel are available to support fire operations at the local and national level.	X	X
9. Ensures master agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	X	X
10. Agency Administrators are required to personally visit fires each year.		X
11. Annually convenes and participates in pre-and post-season fire meetings.	X	X
12. Reviews critical operations and safety policies and procedures with fire and fire aviation personnel.	X	X
13. Ensures timely follow-up to fire preparedness and program reviews.	X	X
14. Ensures fire and fire aviation preparedness reviews are conducted annually in all unit offices. Participates in at least one review annually.	X	X
15. Ensures investigations are conducted for incidents with potential, entrapments, and serious accidents as per the standards in Chapter 18.	X	X
16. Provides a written Delegation of Authority, copy of the Wildland Fire Decision Support System (WFDSS) Published Decision, and an Agency Administrator Briefing to Incident Management Teams.		X
17. Provides a written Delegation of Authority and/or expectations to the unit's Type 3, 4, and 5 Incident Commanders annually prior to fire season.		X
18. Ensures resource advisors are identified, trained, and available for incident assignment. Refer to <i>Resource Advisors Guide for Wildland Fire</i> PMS 313, NFES 1831, January 2004.		X
19. Attends post fire closeout on Type 1 and Type 2 fires (attendance may be delegated).		X

PERFORMANCE REQUIRED	State Director/ Associate	District/ Field Manager
20. Ensures trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to the resource and improvements for all human-caused fires where liability can be determined, as per <i>Fire Trespass Handbook H-9238-1</i> .	X	X
21. Ensures compliance with National and State Office policy for prescribed fire activities. Participates in periodic reviews of the prescribed fire program.	X	X
22. Ensures prescribed fire plans that are approved meet agency policies.	X	X
23. Ensures the prescribed fire plan has been reviewed and recommended by a qualified technical reviewer who was not involved in the plan preparation.		X
24. Ensures the <i>Agency Administrator Ignition Authorization</i> (PMS 485) is signed and dated with the time frame identified before the prescribed fire is ignited.		X
25. Ensures Unit Safety Program is in place, has a current plan, has an active safety committee that includes the fire program.	X	X
26. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i> (or equivalent).	X	X
27. Ensures that a current emergency medical response plan is in place and accessible.		X
28. Ensures current fire and weather information is posted (hardcopy, web, etc.), and available for all employees.		X

1 **Manager's Oversight**

- 2 Agency Administrators are managers that have wildland fire decision authority  
3 for a defined area, as specified by delegation. Agency Administrators are  
4 required to personally visit fires each year. Appendix A contains information to  
5 support the Agency Administrators during these visits.

**1 Post Incident Review**

2 Appendix B (*Manager's Supplement for Post Incident Review*) emphasizes the  
3 factors that are critical for ensuring safe and efficient wildland fire suppression,  
4 and provides examples for managers to use in their review of incident operations  
5 and Incident Commanders.

**6 Fire Training for Agency Administrators**

7 Agency Administrators and their acting must complete fire training within two  
8 years of being appointed to a designated management position. Refer to  
9 Instruction Memorandum No. FA IM-2016-007 for training requirements.

10 Agency Administrator qualifications and training will be entered into the IQCS.  
11 Upon certification, the Agency Administrator (AADM) competency will be  
12 awarded in the IQCS. An Incident Qualification Card may be issued allowing  
13 mobilization of the AADM through ROSS.

**14 State Fire Management Officer (SFMO)**

15 The State Fire Management Officer (SFMO) provides leadership for their  
16 agency fire and fire aviation management program. The SFMO is responsible  
17 and accountable for providing planning, coordination, training, technical  
18 guidance, and oversight to the state fire management programs. The SFMO also  
19 represents the State Director on interagency geographic area coordination  
20 groups and Multi-Agency Coordination (MAC) groups. The SFMO provides  
21 feedback to Districts/Field Offices on performance requirements.

**22 District/Zone/Field Office Fire Management Officer**

23 The District/Zone/Field Office Fire Management Officer (FMO) is responsible  
24 and accountable for providing leadership for fire and fire aviation management  
25 programs at the local level.

**26 The Fire Management Officer:**

- 27 • Determines local fire program requirements to implement land use  
28 decisions through the Fire Management Plan (FMP) to meet land  
29 management objectives;
- 30 • Negotiates interagency agreements and represents the District/Field Office  
31 Manager on local interagency fire and fire aviation groups;
- 32 • Meets Fire Staff Performance Requirements for Fire Operations; and
- 33 • Fulfills FMO Safety and Health Responsibilities for the Fire Program.

34 Experience requirements for positions in Alaska Fire Service, Oregon and  
35 California (O&C) Districts, NIFC, national office, and other fire management  
36 positions in units and state/regional offices will be established as vacancies  
37 occur, but will be commensurate with the position's scope of responsibilities.  
38 The developmental training to fully achieve competencies should be addressed  
39 in an IDP within a defined time period.

## 1 Fire Staff Performance Requirements for Fire Operations

PERFORMANCE REQUIRED	State FMO	District/Zone/Field Office FMO
1. Establishes and manages a safe, effective, and efficient fire program.	X	X
2. Ensures the fire program is funded and managed to provide for safe and effective fire management activities.	X	X
3. Ensures the Fire Management Plan (FMP) reflects the agency commitment to firefighter and public safety by establishing a fire organization to meet state/unit workload or national allocations, while utilizing the full range of fire management activities available for ecosystem sustainability.	X	X
4. Ensures Individual Fire Reports (DI-1202s) are completed, signed/approved, and entered into WFMI.	X	X
5. Ensures only trained and qualified personnel are assigned to fire and fire aviation duties.	X	X
6. Ensures the unit safety program is implemented and provides direction for fire and non-fire safety regulations, training, and concerns.	X	X
7. Ensures completion of a Risk Assessment (RA) for fire and fire aviation activities, and non-fire activities so mitigation measures are taken to reduce risk.		X
8. Ensures compliance with work/rest guidelines during all fire and fire aviation activities.	X	X
9. Ensures fire and fire aviation management employees understand their role, responsibilities, authority, and accountability.	X	X
10. Organizes, trains, equips, and directs a qualified work force.	X	X
11. Establishes and implements a post incident assignment performance review process for each employee.	X	X
12. Develops, implements, evaluates, and documents fire and fire aviation training to meet current and anticipated needs.	X	X

PERFORMANCE REQUIRED	State FMO	District/ Zone/Field Office FMO
13. Ensures fire and fire aviation policies are understood, implemented, and coordinated with other agencies as appropriate.	X	X
14. Monitors fire suppression activities to recognize when complexity levels exceed program capabilities. Increases managerial and operational resources to meet the need.	X	X
15. Monitors fire season severity predictions, fire behavior, and fire activity levels. Ensures national fire severity funding and national preposition funding is requested in a timely manner, used, and documented in accordance with agency standards.	X	X
16. Monitors the expenditure of Short-Term Severity and State Discretionary Preposition funding.	X	X
17. Ensures agreements with cooperators are valid and in compliance with agency policy, and that attached Annual Operating Plans are current.	X	X
18. Develops, maintains, and implements current operational plans (e.g., dispatch, preparedness, prevention, drawdown).		X
19. Ensures that initial response plans (e.g., run cards, preplanned response) are in place and provide for initial response commensurate with guidance provided in the Fire Management Plan and Land/Resource Management Plan. Ensures that initial response plans reflect agreements and annual operating plans, and are reviewed annually prior to fire season.		X
20. Develops, maintains, and implements restrictions procedures in coordination with cooperators whenever possible.	X	X
21. Ensures that the use of fire funds complies with department and agency policies.	X	X
22. Reviews and approves appropriate overtime authorization requests for personnel providing fire suppression coverage during holidays, special events, and abnormal fire conditions.		X
23. Ensures a process is established to communicate fire information to public, media, and cooperators.	X	X

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PERFORMANCE REQUIRED	State FMO	District/Zone/Field Office FMO
24. Annually convenes and participates in pre-and post-season fire meetings where management controls and critical safety issues are discussed.	X	X
25. Oversees pre-season preparedness review of fire and fire aviation program.	X	X
26. Initiates, conducts, and/or participates in fire program management reviews and investigations.	X	X
27. Personally participates in periodic site visits to individual incidents and projects.	X	X
28. Utilizes the Risk and Complexity Assessment (Appendix E and F) to ensure the proper level of management is assigned to all incidents.	X	X
29. Ensures transfer of command on incidents occurs as per Chapter 11.		X
30. Ensures incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X
31. Ensures that an accurate and defensible decision is published in the Wildland Fire Decision Support System (WFDSS) for all fires that escape initial attack.	X	X
32. Ensures that an accurate and defensible decision is published in the Wildland Fire Decision Support System (WFDSS) for all fires managed for multiple objectives.	X	X
33. Ensures IMT briefing packages are developed prior to fire season.		X
34. Works with cooperators, groups, and individuals to develop and implement processes and procedures for providing fire safe communities within the wildland urban interface.	X	X
35. Ensures trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to the resource/improvements for all human-caused fires that ignite on BLM jurisdiction where liability can be determined.	X	X

PERFORMANCE REQUIRED	State FMO	District/Zone/Field Office FMO
36. Ensures required unit personnel are trained in fire cause determination and fire trespass.	X	X
37. Ensures compliance with National and State Office policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X
38. Annually updates and reviews the <i>Agency Administrator's Guide to Critical Incident Management</i> (or equivalent).	X	X
39. Ensures that all fire employees review and update their emergency contact information annually, either in Employee Express or in hard copy format.	X	X
40. Ensures fire season severity predictions, weather forecasts, fire behavior predictors, and fire activity levels are monitored and communicated daily to all employees (hard copy, web page, email, radio, or fax).		X
41. Ensures standards in current National and Local Mobilization Guides are followed.	X	X
42. Complies with established property control/management procedures.	X	X
43. Certifies Area Command and Type 1 Command and General Staff positions.	X	

1 Requirements for fire management positions are outlined in the *Interagency Fire*  
2 *Program Management Qualifications Standards and Guide* (IFPM) Standard.  
3 The supplemental Qualification Standard for professional GS-0401 Fire  
4 Management Specialist positions, approved by the Office of Personnel  
5 Management, is also included in the IFPM Standard. The *Interagency Fire*  
6 *Program Management Qualification Standards and Guide* can be found in its  
7 entirety on the IFPM website at <http://www.ifpm.nifc.gov>.

#### 8 **Delegation of Authority**

##### 9 **Delegation for State Fire Management Officers (SFMO)**

10 In order to effectively perform their duties, a SFMO must have certain  
11 authorities delegated from the State Director. This delegation is normally placed  
12 in the state office supplement to agency manuals. This Delegation of Authority  
13 should include the following roles and responsibilities:

- 14 • Serve as the State Director's authorized representative on geographic area  
15 coordination groups, including MAC groups.

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- 1 • Coordinate and establish priorities on uncommitted fire suppression
  - 2 resources during periods of shortages.
  - 3 • Coordinate logistics and suppression operations statewide.
  - 4 • Relocate agency pre-suppression/suppression resources within the
  - 5 state/region based on relative fire potential/activity.
  - 6 • Correct unsafe fire suppression activities.
  - 7 • Direct accelerated, aggressive initial attack when appropriate.
  - 8 • Enter into agreements to provide for the management, fiscal, and
  - 9 operational functions of combined agency operated facilities.
  - 10 • Suspend prescribed fire activities when warranted.
  - 11 • Give authorization to hire Emergency Firefighters in accordance with the
  - 12 DOI Pay Plan for Emergency Workers.
  - 13 • Monitor (and approve if delegated) emergency Short-Term fire severity
  - 14 funding and State Discretionary Preposition funding expenditures not to
  - 15 exceed the state's annual authority.
  - 16 • Ensure national fire severity funding and national preposition funding is
  - 17 requested in a timely manner, used, and documented in accordance with
  - 18 agency standards.
  - 19 • Appendix C provides a sample "Delegation of Authority."
- 20 **Delegation for District/Zone/Field Office Fire Management Officers (FMO)**
- 21 In order to effectively perform their duties, a unit FMO must have certain
- 22 authorities delegated from the District Manager. This delegation is normally
- 23 issued annually. This Delegation of Authority should include the following roles
- 24 and responsibilities:
- 25 • Serve as the District Manager's authorized representative on operations
  - 26 groups and coordination groups, including MAC groups.
  - 27 • Coordinate and establish priorities on uncommitted fire suppression
  - 28 resources during periods of shortages.
  - 29 • Coordinate logistics and suppression operations for the unit.
  - 30 • Relocate agency pre-suppression/suppression resources within the unit
  - 31 based on relative fire potential/activity.
  - 32 • Correct unsafe fire suppression activities.
  - 33 • Direct accelerated, aggressive initial attack when appropriate.
  - 34 • Facilitate entry into agreements to provide for the management, fiscal, and
  - 35 operational functions of combined agency operated facilities.
  - 36 • Suspend prescribed fire activities when warranted.
  - 37 • Give authorization to hire Emergency Firefighters in accordance with the
  - 38 DOI Pay Plan for Emergency Workers.
  - 39 • Approve emergency fire severity funding expenditures not to exceed the
  - 40 unit's approved authority.
  - 41 • Appendix C provides a sample "Delegation of Authority."

**1 BLM Operational Duty Officer (ODO)**

2 Each BLM unit Fire Management Officer will perform the duties of an ODO or  
3 will provide a delegated ODO for their units during any period of predicted  
4 incident activities. ODO responsibilities may be performed by any individual  
5 with a signed Delegation of Authority from the local Agency Administrator.  
6 Qualifications for the ODO will be identified within the Unit Annual Operating  
7 Plan. The required duties for all BLM ODOs are:

- 8 • Monitor unit incident activities for compliance with BLM safety policies.
- 9 • Coordinate and set priorities for unit suppression actions and resource  
10 allocation.
- 11 • Keep unit Agency Administrators, suppression resources, and information  
12 officers informed of the current and expected situation.
- 13 • Plan for and implement actions required for future needs.
- 14 • Document all decisions and actions.

15 ODOs will provide operational oversight of these requirements as well as any  
16 unit specific duties assigned by the local fire managers through the local unit fire  
17 operating plan. ODOs will not fill any ICS incident command functions  
18 connected to any incident. In the event that the ODO is required to accept an  
19 incident assignment, the FMO will ensure that another qualified and authorized  
20 ODO is in place prior to the departure of the outgoing ODO.

**21 State and National Duty Officers**

22 Each state will maintain a state-level duty officer during fire season and  
23 dedicated telephone number. State duty officers are responsible for:

- 24 • Establishing a process to identify available assets or needs within their state;
- 25 • Communicating availability of or need for assets to other state duty officers;
- 26 • Maintaining information on the Asset Intelligence Spreadsheet;
- 27 • Approving asset assignments; and
- 28 • Facilitating movement of assets using established dispatch/coordination  
29 system protocols.

30 FA-320 will maintain a national duty officer and dedicated telephone number.  
31 The national duty officer is responsible for:

- 32 • Monitoring and supporting the Asset Intelligence Spreadsheet;
- 33 • Providing coordination and prioritization of prepositioned assets between  
34 states if the need arises;
- 35 • Resolving disagreements of asset priorities and/or mobilizations by  
36 elevating issues to the Division Chief, Fire Operations (FA DC) or delegate;
- 37 • Facilitating movement of assets using established dispatch/coordination  
38 system protocols; and
- 39 • Providing briefings and updates to the FA DC/BLM NMAC representative  
40 as requested.

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- 1 All state and national duty officer telephone numbers are listed on the Asset  
2 Intelligence Spreadsheet.

### 3 **Incident Business**

- 4 A consolidated view of fire business practices, supporting policy, and regulation  
5 is contained in the *BLM Standards for Fire Business Management*, available at:  
6 [http://web.blm.gov/internal/fire/budget/Reference\\_docs/Incident%20Business/I](http://web.blm.gov/internal/fire/budget/Reference_docs/Incident%20Business/IB-new/OrangeBk.html)  
7 [B-new/OrangeBk.html](http://web.blm.gov/internal/fire/budget/Reference_docs/Incident%20Business/IB-new/OrangeBk.html).

### 8 **BLM Fire Management Position Titles and Fire Department Cooperator** 9 **Equivalencies**

- 10 Bureau of Land Management units that choose to use fire department cooperator  
11 nomenclature will utilize the following BLM position title equivalency standard.

BLM Fire Management Position Title	Fire Department Cooperator Equivalency
State FMO, District FMO	Chief
State AFMO, District AFMO	Deputy Chief
State Office Fire Staff	Assistant Chief
Field Office FMO, Center Manager, District Fire Management Specialist, District Fuels Specialist	Division Chief
Fire Operations Specialist, Fuels Specialist, Assistant Center Manager, Prevention/Education Specialist	Battalion Chief
Prevention Technician, Prevention/Education Specialist	Prevention officer
Hotshot Superintendent, Helicopter Manager	Superintendent
Engine Captain, Hotshot Foreman, Assistant Helicopter Manager, Fuels Module Leader	Captain
Fire Engine Operator	Engineer
Communications Technician	Comm.
Mechanic	Repair

### 12 **Safety and Occupational Health Program**

- 13 Safety and occupational health program responsibilities are interwoven  
14 throughout Bureau program areas, including fire management. Safety of our  
15 employees lies within every level of the organization and program  
16 implementation can have a direct impact on firefighting personnel. To ensure  
17 that program requirements are met to support the fire and aviation management  
18 program, the following checklist shall be utilized.

## 1 Safety and Health Responsibilities for the Fire Program

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	District/ Field Manager
1. An annual Unit Safety and Health Action Plan is developed, approved, and signed by unit Agency Administrator. This plan outlines courses of action to improve the unit's safety program and is based upon an assessment of what is needed to make the safety program fully functional.		X	X	X
2. Risk Assessments (RAs) are completed for suppression and non-suppression related activities and crews are briefed on RAs prior to beginning work.			X	X
3. An individual has been designated as the Unit Safety Officer.	X			X
4. Maintains a working relationship with all facets of the fire organization including outstations.		X	X	X
5. A safety committee or group, which includes fire representation, is organized to monitor safety and health concerns and activities.		X	X	X
6. Written safety and health programs required by OSHA are in place and being implemented to include fire personnel.	X	X		
7. Employees are provided mandatory safety and health training, including the BLM Fire and Aviation Employee Orientation Checklist.		X	X	X

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PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	District/ Field Manager
8. Fire safety programs (e.g., SAFENET, Six Minutes for Safety, Safety Alerts) are known and being utilized.			X	
9. Safety publications are available to all fire employees (e.g., <i>Incident Response Pocket Guide</i> , <i>1112-2 Manual</i> , <i>Wildland Fire Incident Management Field Guide</i> ).			X	
10. Assures that risk management process is integrated into all major policies, management decisions, and the planning and performance of every job. ( <i>BLM Manual 1112</i> )			X	
11. Procedures are in place to monitor Work Capacity Test (WCT) results and ensure medical examination policies are followed.			X	
12. Safety Data Sheets (SDS) are present, accessible, and available for all hazardous materials used and stored in the work area.		X	X	
13. Procedures are in place to purchase non-standard equipment as identified in the Risk Assessment process, and to ensure compliance with consensus standards (e.g., ANSI, NIOSH) for PPE.	X	X		X
14. Personal Protective Equipment (PPE) supplied, is serviceable, and being utilized.		X	X	

PERFORMANCE REQUIRED	State Safety Manager	District/ Zone Safety Manager	Unit FMO	District/ Field Manager
15. Ensures tailgate safety meetings are held and documented.			X	
16. Monitors and inspects operations and work sites for unsafe acts and conditions and promptly takes appropriate preventative and corrective measures. ( <i>BLM Manual 1112</i> )		X		
17. Procedures are in place for reporting unsafe and unhealthful working conditions.		X		X
18. Promptly reports and investigates all job-related accidents/incidents that result in or have the potential to cause fatalities, injuries, illnesses, property, or environmental damage. All such reports are electronically submitted to the Safety Management Information System (SMIS). <i>BLM Manual 1112 Safety</i>			X	X
19. Injury data is monitored and reviewed to determine trends affecting the health and welfare of employees.		X		X
20. Ensures facility and work area inspections are conducted to ensure requirements are met. 29 <i>CFR 1960 and 485 DM, Chapter 5 requirements.</i>	X	X		X

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**1 Employee Safety and Health Program Responsibility**

- 2 All employees have personal responsibility to ensure safe and healthful work  
3 practices and the following elements specifically outline these responsibilities:
- 4 • Complying with applicable work rules, practices, and procedures.
  - 5 • Using safety devices, personal protective equipment, clothing, and other  
6 means provided or directed by recognized authority at all times when  
7 necessary for their protection.
  - 8 • Reporting unsafe and unhealthful working conditions to management.
  - 9 • Reporting every job-related accident/incident to their supervisor that results  
10 in, or has the potential to harm people, property, or the environment.
  - 11 • Reporting personal conditions that could adversely affect their ability to  
12 perform in a safe and healthful manner on the job.
  - 13 • Completing the BLM Fire and Aviation Employee Orientation Checklist,  
14 available on the BLM Fire Operations website.

**15 Emergency Notification and Contact Information**

16 After emergency response actions deliver an injured employee to the immediate  
17 medical care facility, prompt notification through the chain of command is  
18 essential to ensure proper management support to the employee. For BLM fire  
19 operations, notification criteria are as follows:

**20 • Injury on a BLM Fire**

21 The responsible unit Fire Management Officer (FMO)/Operational Duty  
22 Officer will notify their State Duty Officer (or Fire Operations Group  
23 (FOG) representative) immediately. The State Duty Officer (or FOG  
24 representative) will then ensure the appropriate local agency GACC  
25 operational representative is notified.

**26 • BLM Employee Injury**

27 Injured employee's home unit FMO is notified. The FMO will then notify  
28 their State Duty Officer (or FOG representative) immediately. If the  
29 employee injury occurs in another state, the State Duty Officer (or FOG  
30 representative) will ensure that the hosting State Duty Officer (or FOG  
31 representative) is notified of the injury.

**32 • Great Basin Smokejumpers**

- 33 ○ From the Scene:
  - 34 ■ The accident is reported to the smokejumper spotter, Great Basin  
35 Smokejumper Liaison Officer (LO), and local dispatch.
  - 36 ■ When the accident involves a jump injury, the spotter and/or  
37 ground contact will convey the medical needs and nature of the  
38 injury to the local dispatch.
  - 39 ■ If cellular phone or satellite phone coverage is available, a ground  
40 contact will call the Great Basin Smokejumper LO or DO with  
41 details about the accident.

- 1     ○ From the Great Basin Smokejumper Duty Officer:
  - 2         ▪ The Great Basin Smokejumper Duty Officer will notify the base
  - 3         manager.
  - 4         ▪ The smokejumper base manager will notify the National
  - 5         Interagency Fire Center (NIFC) Fire Operations Chief of
  - 6         Preparedness and Suppression Standards (or acting).
  - 7         ▪ BLM Operations Chief of Preparedness and Suppression Standards
  - 8         will inform necessary parties up the chain of command and notify
  - 9         the NIFC External Affairs Office.
  - 10        ▪ The Great Basin Smokejumper Duty Officer or Base Manager will
  - 11        notify the BLM State Duty Officer (or FOG Representative).
  - 12        ▪ The Great Basin Smokejumper Duty Officer will confirm an
  - 13        agency representative will accompany the injured party to the
  - 14        hospital.
- 15    ○ From the BLM Great Basin Smokejumper Base Manager:
  - 16        ▪ The smokejumper base manager will contact their base manager
  - 17        counterpart if a visiting jumper is injured.
  - 18        ▪ The smokejumper base manager will notify the emergency contact
  - 19        of the injured smokejumper if the injured smokejumper is unable
  - 20        to do so.

21 All fire and aviation employees are required to review and update their  
22 emergency contact information annually, either in Employee Express or in hard  
23 copy format. This information will only be used for emergency purposes and  
24 only by those authorized to make contact with the employee and/or their  
25 personal contact(s) and will be maintained in accordance with the provisions of  
26 the Privacy Act of 1974.

#### 27 **Employee Advocacy**

28 Fire operations doctrine acknowledges the inherent danger of fire operations and  
29 the potential for serious injury or death to firefighters. When these occur, it is  
30 important that Bureau employees are provided the best and most appropriate  
31 care and support possible. Managers should consult their human resources  
32 experts to ensure that applicable Departmental and Bureau human resources  
33 policies and guidelines are followed. In addition, the *Bureau of Land*  
34 *Management Line of Duty Death (LODD) Response Guide* provides information  
35 to assist managers in dealing with the many complexities of these occurrences.

36 The *LODD Response Guide* is available in the Toolbox section of the BLM Fire  
37 Operations Website.



**1 BLM Fire and Aviation Honor Guard**

2 The BLM Fire and Aviation Honor Guard represents the highest ideals of honor,  
3 dignity, professionalism and respect in serving the agency, the fire community,  
4 and the families, friends and co-workers of those who have lost their lives in the  
5 line of duty.

6 The Honor Guard was established to appropriately pay tribute to and honor the  
7 memory of employees who perish in the line of duty. The Honor Guard also  
8 responds to requests for their participation at events of state and national  
9 significance.

10 The Honor Guard is comprised of a cross-section of the BLM workforce from  
11 within the fire and aviation program. A commitment to the program directly  
12 impacts fellow members and the ability of the team to function at the highest  
13 level possible. Members will be expected to commit for no less than a two-year  
14 period, and may remain an Honor Guard member until they can no longer fulfill  
15 the commitment or wish to retire from the Honor Guard. Members must stay in  
16 good standing in the Bureau.

17 For more information, refer to  
18 [http://www.blm.gov/nifc/st/en/prog/fire/honor\\_guard.html](http://www.blm.gov/nifc/st/en/prog/fire/honor_guard.html).

**19 Employee Conduct**

20 All employees, coöperators, contractors, and volunteers who participate in  
21 wildland fire operations have the duty to treat each other with respect and to  
22 maintain a work environment free of misconduct and harassment.

23 Misconduct includes but is not limited to alcohol misuse, driving while  
24 intoxicated, the use of illegal drugs, hazing, insubordination, disregard for  
25 policies and procedures, and the destruction or theft of government property.

26 Harassment is coercive or repeated, unsolicited and unwelcome verbal  
27 comments, gestures, or physical contacts and includes retaliation for confronting  
28 or reporting harassment.

29 Harassment and misconduct will not be tolerated under any circumstances and  
30 will be dealt with in the strictest of terms. We must all take responsibility for  
31 creating and ensuring a healthy and safe work environment. Employees who  
32 experience or witness harassment, misconduct, or any inappropriate activity  
33 should report it to the proper authority immediately.

**34 Examples of Harassment and Misconduct**

- 35 • **Physical conduct** – Unwelcome touching, standing too close, looking up  
36 and down, inappropriate or threatening staring or glaring, obscene,  
37 threatening, or offensive gestures.

- 1 • **Verbal or written misconduct** – Inappropriate references to body parts;  
2 derogatory or demeaning comments, jokes, or personal questions; sexual  
3 innuendoes; offensive remarks about race, gender, religion, age, ethnicity,  
4 or sexual orientation, obscene letters or telephone calls, catcalls, whistles or  
5 sexually suggestive sounds.
- 6 • **Visual or symbolic misconduct** – Display of nude pictures, scantily-clad,  
7 or offensively-clad people; display of offensive, threatening, demeaning, or  
8 derogatory symbols, drawings, cartoons, or other graphics; offensive  
9 clothing or beverage containers, bumper stickers, or other articles.
- 10 • **Hazing** – Hazing is considered a form of harassment. “Hazing” is defined  
11 as “any action taken, or situation created intentionally, to produce mental or  
12 physical discomfort, embarrassment, or ridicule.”
- 13 • **Alcohol** – The use of alcohol during any work period is strictly prohibited.  
14 The performance of job duties while under the influence of alcohol is  
15 prohibited. Underage personnel alcohol use is prohibited at all times.

## 16 **BLM Mobile Fire Equipment Policy**

### 17 **Introduction**

18 The following section represents a general overview of the BLM Mobile Fire  
19 Equipment Policy. The policy can be found in its entirety on the BLM National  
20 Fire Equipment Program (NFEP) Website, located within the BLM Fire  
21 Operations website.

### 22 **Policy and Guidance**

23 The BLM fire equipment program is responsible for the design, development,  
24 and acquisition of specialized wildland fire equipment to meet the full range of  
25 fire management requirements. The design and development is accomplished  
26 through the analysis of performance needs required by BLM field units and  
27 working with industry to produce prototypes for testing and eventually  
28 production units. Acquisition of equipment is accomplished primarily through  
29 contracting. The BLM fire equipment program balances advanced technology  
30 with overall cost efficiency to provide maximum safety for personnel while  
31 effectively meeting fire management needs.

32 It is agency policy to maintain each piece of fire equipment at a high level of  
33 performance and in a condition consistent with the work it has been designed to  
34 perform. This shall be accomplished through application of a uniform preventive  
35 maintenance program, timely repair of components damaged while on  
36 assignment, and in accordance with all agency fiscal requirements. Repairs shall  
37 be made as they are identified to keep the equipment functional and in peak  
38 operating condition.

### 39 **Fire Equipment Committees**

40 There are three levels of fire equipment committees: National, State, and  
41 Interagency. Fire equipment committees address the broad spectrum of

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1 equipment subjects and make recommendations. State committees will report to  
2 the respective State Fire Management Officer. The BLM Fire Equipment Group  
3 and the BLM Engine Committee report to the Fire Operations Group (FOG).  
4 Equipment committees should invite other agency equipment leads to share  
5 ideas, transfer technology, and coordinate efforts.

6 **BLM National Fire Equipment Program (NFEP)**

7 The BLM National Fire Equipment Program (NFEP) is located at NIFC. This  
8 unit is responsible for the development, ordering, inspection, receiving, and  
9 distribution of new fire equipment that will meet or exceed the minimum  
10 performance standards established by the BLM Fire Equipment Group and the  
11 BLM Engine Committee. The NFEP website is located within the BLM Fire  
12 Operations website.

13 **BLM Fire Equipment Status Report (FES)**

14 Each state will submit an FES report to the NFEP annually by April 15. The  
15 FES is required to gather baseline data including the license number, type,  
16 make/model and location on mobile asset types (i.e., engines, off-highway  
17 vehicles and support vehicles). The Division of Fire Operations will issue an  
18 annual reminder notification to the Fire Operations Group (FOG) requesting this  
19 information. The FES is available at the NFEP section of the BLM Fire  
20 Operations website.

21 **BLM Engine Use Report (EUR)**

22 All BLM engines will utilize the Engine Use Report. The EUR should be printed  
23 and completed daily as part of the Fire Equipment Maintenance and Procedure  
24 Record (FEMPR) and entered into the BLM EUR Share Point on a monthly  
25 basis. Access will be granted by the respective state Fire Operations Group  
26 (FOG) representative. The EUR is available at the Engine section of the BLM  
27 Fire Operations website.

28 **Equipment Development**

29 The BLM NFEP has established a fire equipment development process to ensure  
30 that new fire equipment or technologies meet or exceed established performance  
31 standards. All new fire equipment will follow this development process and will  
32 be tested and evaluated under actual field conditions prior to being made  
33 available for general ordering.

34 **Fire Equipment Standardization**

35 Standardization of fire equipment aids in the ability to produce equipment that  
36 effectively meets the Bureau's mission by providing cost effective equipment  
37 with the least impact on fire programs. Standardization also contributes to the  
38 ability to provide effective, consistent, and quality training to the BLM fire  
39 program workforce. The BLM Fire Equipment Group and the BLM Engine  
40 Committee have the responsibility to establish and approve minimum  
41 performance standards for all BLM-specific fire equipment.

1 **Fire Engine and Command Vehicle Identifier Standards**

2 Bureau of Land Management fire engine and command vehicle identifier  
3 standards have been established by the national Fire Operations Group and can  
4 be found at the BLM Fire Operations website.

5 **Deficiency Reporting**

6 The BLM Fire Equipment Improvement/Deficiency Reporting System is used to  
7 collect improvement recommendations and deficiency reports for all BLM fire  
8 equipment. The reporting system enables the BLM NFEP to build a  
9 comprehensive database to document problems, identify trends, and establish  
10 priorities for development and modification of new and existing equipment.

11 District/Field Offices are required to submit timely and detailed deficiency  
12 reports for problems encountered with BLM fire equipment. Reports will also be  
13 submitted for suggestions for improvement. Submitted reports will receive  
14 immediate attention. The NFEP will immediately verify receipt of the deficiency  
15 report and will follow-up with the submitting District/Field Office to correct the  
16 deficiency or work to incorporate the improvement suggestion. The  
17 Improvement/Deficiency Reporting System can be found on the BLM National  
18 Fire Equipment Program website, located within the BLM Fire Operations  
19 website.

20 **Acquisition of Working Capital Fund Equipment**

21 The National Operations Center (NOC) located in Denver manages the Working  
22 Capital Fund (WCF). Each class of vehicle has an established replacement cycle  
23 based on miles or hours, vehicle replacement costs, and residual value. The  
24 WCF acquires funds through Fixed Ownership and Use Rates determined by the  
25 replacement cycle. At the end of the replacement cycle, adequate funds to  
26 replace the vehicle are available. For new vehicle purchases, funds are  
27 acquired/secured by the receiving unit and the new purchase is added to the  
28 WCF. The NOC monitors vehicle usage and replacement cycles, and notifies the  
29 NFEP when vehicles need to be replaced. The NFEP then coordinates with the  
30 receiving unit to order the replacement vehicle. When the order is placed, the  
31 NFEP works with the BLM Fleet Manager, the receiving unit, contracting, and  
32 the vendor to fill the order.

33 **Funding**

34 Procurement of nonstandard equipment with fire management funds when  
35 standard equipment is available must have written approval by the Fire  
36 Operations Division Chief (FA-300) and the State Fire Management Officer.  
37 Most fire vehicles are funded through the WCF. Other types of fire equipment  
38 are funded through the normal budget process at the state and local level.  
39 Specialized equipment may be funded in a variety of ways including through the  
40 Fire and Aviation Directorate, special project allocations, available mid or year  
41 end funds, state or local funding, interagency agreement, or through the WCF.

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**1 BLM Mobile Fire Equipment Ordering**

2 Ordering of BLM mobile fire equipment is completed through the NFEP at  
3 NIFC. Available equipment is listed in the BLM Fire Equipment Ordering  
4 System (FEOS) web page. Contact the National Fire Equipment Program for  
5 additional information.

6 States have the authority to order their own equipment using WCF funds.  
7 However, the BLM has established required equipment and performance  
8 standards for new equipment. These standards have been established to reduce  
9 excessive procurement costs, maintain common operational functions, and  
10 provide a Bureau wide standard fire fleet.

11 All WCF 600 class vehicles must be ordered through FEOS. If states order their  
12 own equipment using WCF funds, they must have approval from the WCF Fleet  
13 Manager, State Fire Management Officer, and the Fire Operations Division  
14 Chief (FA-300) prior to ordering.

**15 Equipment Modification/Retrofitting**

16 Modification proposals must be submitted through the Improvement/Deficiency  
17 reporting system or applicable FOG subcommittee for consideration and  
18 approved through the NFEP. Unauthorized modifications and retrofits have the  
19 potential to negatively impact equipment quality and safety and void  
20 manufacturer warranties. In such cases, the financial burden of corrective action  
21 will be borne by the home state/unit preparedness funding.

**22 Property Transfer/Replacement**

23 Surplus and early turn-in fire vehicles may be transferred to another unit for  
24 continued service with the approval of the State Fire Management Officer and  
25 the WCF Manager. In these instances, the vehicle remains in the same class, and  
26 the FOR and use rates will continue to be charged to the unit acquiring the  
27 vehicle. Units may dispose of fire vehicles prior to the normal replacement date.  
28 In these instances, no future replacement is automatically provided and there is  
29 no accrued credit for the FOR collected on that unit prior to disposal. Units  
30 acquiring this type of equipment continue payment of the FOR and use rates.  
31 Mobile fire equipment transfers to other agencies or organizations must be  
32 approved by the NFEP and FA-300 prior to initiating any transfer actions.

**33 Conversions**

34 Offices requesting to convert replacement fire equipment to a different class of  
35 equipment must follow and provide the following criteria and documentation:

- 36 • Proposed changes meet current and future preparedness requirements  
37 identified in Resource/Land Management Plans and Fire Management  
38 Plans.
- 39 • Proposed changes result in an overall cost savings to the government.

- 1 If any proposed changes in equipment result in additional overall costs to the  
2 government, documentation must include:
- 3 • Increased production rates which may offset additional costs.
  - 4 • The requesting states availability of sufficient funds to cover additional  
5 costs.

6 BLM units will use the standard form available on the BLM Fire Operations  
7 website to provide required documentation for approval for conversions,  
8 transfers, and excess vehicles.

9 **BLM Engine Equipment Inventory**

10 BLM engines will be stocked as per the BLM National Engine Equipment  
11 Inventory found at the BLM Fire Operations Website.

12 **Fire Equipment Maintenance and Care Standards**

13 BLM fire equipment will be maintained to reflect the highest standards in  
14 performance and appearance, and will meet the following standards:

- 15 • Equipment exterior:
  - 16 ○ Clean and waxed
  - 17 ○ Free of debris
  - 18 ○ Items secured
  - 19 ○ Windows and mirrors cleaned
  - 20 ○ All mechanical systems in good working order
- 21 • Equipment interior:
  - 22 ○ Cab and compartments free of dirt and debris
  - 23 ○ Cab free of loose items
  - 24 ○ Equipment stored in appropriate compartments and organized
  - 25 ○ Windows and mirrors cleaned
  - 26 ○ Mechanical systems in good working order

27 Equipment will be stored in sheltered areas away from environmental elements  
28 whenever possible to prevent damage to critical seals, mechanical components,  
29 and the high-visibility finish.

30 **Fire Equipment Maintenance and Procedure Record (FEMPR)**

31 The Fire Equipment Maintenance Procedure and Record (FEMPR) will be used  
32 to document daily inspections and all maintenance for all WCF Class 600 fire  
33 equipment and any other vehicles used for fire suppression operations. The  
34 FEMPR shall be maintained and archived to record historic maintenance for the  
35 duration of the vehicle's service life. This historical data is beneficial in  
36 determining trends, repair frequency, and repair costs. The FEMPR can be found  
37 at the BLM Fire Operations website.

38 Apparatus safety and operational inspections will be performed at the intervals  
39 recommended by the manufacturer and on a daily and post-fire basis as required.  
40 For engines and water tenders, all annual inspections will include a pump gpm

- 1 test to ensure the pump/plumbing system is operating at or above the
- 2 manufacturer's minimum rating for the pump.

### 3 **BLM Implementation of the Department of the Interior (DOI)**

#### 4 **Authorization for Use of Government Passenger Carrier(s) for Home-to-**

#### 5 **Work Transportation**

6 The BLM recognizes the need for domiciling fire vehicles for specific positions  
7 during fire season in order to provide for more immediate response to wildfires  
8 during off-duty hours, and has been granted this authority by DOI.

- 9 • Only those positions authorized and pre-identified within the DOI  
10 memorandum will have the authority to domicile designated government  
11 vehicles.
- 12 • This authority is intended only for individuals in first response fire  
13 leadership roles who may be responding to initial attack fires directly from  
14 their home after hours.
- 15 • Government vehicles are used solely for official business and domiciled  
16 only during core fire season months when there is a heightened level of  
17 current or expected fire activity.
- 18 • Authorized positions will be recertified every two years and may be revised  
19 at that time.
- 20 • Units are responsible for maintaining documentation of home-to-work use  
21 of government vehicles. This documentation will be reviewed during annual  
22 fire and aviation preparedness reviews. A BLM standard tracking form has  
23 been developed and may be used for this purpose. It can be found on the  
24 BLM Fire Operations website at  
25 [http://web.blm.gov/internal/fire/fire\\_ops/toolbox.htm](http://web.blm.gov/internal/fire/fire_ops/toolbox.htm).
- 26 • Refer to Instruction Memorandum No. FA IM-2013-023 for more  
27 information.

### 28 **Lights and Siren Response**

29 Responding to BLM wildland fire incidents normally does not warrant the use of  
30 emergency lights and siren to safely and effectively perform the BLM mission.  
31 However, there may be rare or extenuating circumstances when limited use of  
32 lights and sirens are appropriate and necessary due to an immediate threat to life.

33 Those BLM state organizations that determine a lights and sirens response is  
34 necessary to meet mission requirements must develop an operating plan that is  
35 signed and approved by the State Director and forwarded to the Chief, Division  
36 of Fire Operations, BLM FA. The operating plan must ensure the following:

- 37 1. All vehicles (command, engines, etc.) will be properly marked, equipped,  
38 and operated in accordance with state statutes, codes, permits, and BLM  
39 unit requirements.
- 40 2. Drivers will complete training in the proper use of lights and sirens  
41 response in accordance with National Fire Protection Association (NFPA)  
42 1451 and 1002 standards, as well as any state requirements.

- 1 3. Engine drivers responding with lights and sirens will be minimally qualified  
2 as engine operator with a qualified engine boss in the engine; otherwise,  
3 driver must be engine boss qualified. Command vehicle drivers will be  
4 minimally qualified as single resource boss.
- 5 4. Lights and sirens will meet NFPA and state code requirements.
- 6 5. Posted speed limits will be followed at all times, regardless of response  
7 type.
- 8 6. Operators will stop or reduce speed as circumstances dictate prior to  
9 proceeding through all intersections.
- 10 7. Traffic light changing mechanisms (e.g., Opticons) will only be used under  
11 formal written agreement with state and local governments. They will be  
12 used only when they are necessary to create safe right-of-way through urban  
13 high-traffic areas. All pertinent state and local statutes and procedures will  
14 be adhered to.
- 15 8. Authorization to respond with lights and sirens does not cross state lines.  
16 No driver will be authorized by one state to operate with lights and sirens in  
17 another state.

## 18 **BLM Firefighters**

### 19 **Introduction**

20 Firefighters operate within the Incident Command System (ICS), which is a  
21 component of the National Incident Management System (NIMS).

22 In the ICS, firefighters are either assigned as single resource overhead  
23 (individuals assigned to specific supervisory or functional positions) or as  
24 members of an organized unit. The individuals within these units are trained to  
25 provide different levels and types of tactical, logistical, and managerial  
26 capability.

27 These units include:

- 28 • **Hand Crews** – Vehicle mobile firefighters that specialize in the use of hand  
29 tools, chainsaws, portable pumps, and ignition devices for tactical  
30 operations. Hand crew types include Interagency Hotshot Crews (IHC),  
31 Type 2 Initial Attack Crews, Type 2 Crews, and Fire Suppression Modules.
- 32 • **Engine Crews** – Engine mobile firefighters that specialize in the use of  
33 engines for tactical operations.
- 34 • **Helitack** – Helicopter mobile firefighters that specialize in the use of  
35 helicopters for tactical and logistical operations.
- 36 • **Smokejumpers** – Fixed wing aircraft and parachute mobile firefighters that  
37 specialize in the use hand tools, chainsaws, and ignition devices for tactical  
38 operations.

### 39 **BLM Firefighter Priority for Use**

- 40 • Initial attack on lands for which the BLM has suppression responsibility.
- 41 • Other fire suppression/management assignments on BLM lands.

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- 1 • Other fire suppression/management assignments on other agency lands.
- 2 • All Hazard – ESF#4 reference:
- 3 [http://web.blm.gov/internal/fire/budget/Reference\\_docs/esf4/ESF4\\_page.htm](http://web.blm.gov/internal/fire/budget/Reference_docs/esf4/ESF4_page.htm).

#### 4 **BLM Fire Operations Group National Preposition Strategy**

- 5 The Fire Operations Group (FOG) has established an Asset Intelligence
- 6 Spreadsheet for priority placement and prepositioning of suppression resources.
- 7 Information can be found on the FOG website at
- 8 [http://web.blm.gov/internal/fire/fire\\_ops/fog.htm](http://web.blm.gov/internal/fire/fire_ops/fog.htm).

#### 9 **Mobilization of BLM Firefighters**

10 BLM firefighters are mobilized to perform the following functions:

- 11 • Suppress fires and manage wildland fire incidents;
- 12 • Improve BLM initial attack capability;
- 13 • Maximize the utilization of limited BLM fire operational assets;
- 14 • Provide additional fire management capability in high tempo periods;
- 15 • Provide experience and developmental opportunities to BLM firefighters;
- 16 • Perform fire management project work or assignments; or
- 17 • Perform other project work or assignments.

18 There are six funding mechanisms for mobilizing BLM firefighters:

- 19 • Preparedness funding
- 20 • Suppression funding
- 21 • Short-term severity (State-level/Regional-level Severity) funding
- 22 • National-level severity funding
- 23 • National preposition funding
- 24 • State discretionary preposition funding

#### 25 **Preparedness Funding**

26 Preparedness funding may be used to mobilize resources for normal  
27 preparedness activities such as:

- 28 • Movement of resources within a unit not associated with fire activity;
- 29 • Detailing firefighters to fill vacant positions;
- 30 • Project work or normal preparedness activities; and/or
- 31 • Training.

32 Fire managers have the authority to expend preparedness funding for  
33 preparedness activities. Mobilization of non-BLM federal resources with BLM  
34 preparedness funding requires a reimbursable agreement.

#### 35 **Suppression Funding**

36 Suppression funding is used to mobilize resources to wildland fire incidents.  
37 BLM firefighters are mobilized directly to incidents using established methods  
38 (resource orders, initial attack agreements, dispatch plans, response plans, etc.).

**1 Short-Term Severity (State-Level Severity)**

2 Short-term severity funding may be used to mobilize resources for state/regional  
3 short-term severity needs that are expected to last less than one week, such as:

- 4 • Wind events;
- 5 • Cold dry front passage;
- 6 • Lightning events; and/or
- 7 • Unexpected events such as off-road rallies or recreational gatherings.

8 Each state director and the Fire and Aviation division chiefs for Operations and  
9 Aviation have been delegated the authority to expend “short-term” severity  
10 funds per fiscal year. This discretionary severity authorization can be expended  
11 for appropriate severity activities without approval from Fire and Aviation.  
12 States will establish a process for requesting, approving, and tracking short-term  
13 severity funds.

**14 National-Level Severity Funding**

15 National-level severity funding is used to mobilize resources to areas where:

- 16 • Preparedness plans indicate the need for additional preparedness/  
17 suppression resources;
- 18 • Anticipated fire activity will exceed the capabilities of local resources;
- 19 • Fire season has either started earlier or lasted longer than identified in the  
20 Fire Danger Operating Plan;
- 21 • An abnormal increase in fire potential or fire danger (e.g., high fine fuel  
22 loading, fuel dryness) not planned for in existing preparedness plans; and/or
- 23 • There is a need to mitigate threats to values identified in Land and Resource  
24 Management Plans with AD, Fire and Aviation concurrence.

25 In addition to the above criteria, the AD, Fire and Aviation may consider other  
26 factors when approving requests for national severity.

27 Guidance for requesting and utilizing national-level severity funding is found in  
28 Chapter 10 and on the BLM Fire Operations website. Requests should be  
29 consolidated by state, coordinated with Fire and Aviation, and then submitted to  
30 Fire and Aviation by the State Director. The official memo requesting funds  
31 should be mailed to the Assistant Director, Fire and Aviation. An electronic  
32 copy should also be e-mailed to “BLM\_FA\_Severity@blm.gov.”

33 Severity funding requests will be accepted and approved for a maximum of 30  
34 days, regardless of the length of the authorization. Use of severity funding must  
35 be terminated when abnormal conditions no longer exist. If the fire severity  
36 situation extends beyond the 30-day authorization, the state must prepare a new  
37 severity request.

38 An approval memo from Fire and Aviation will list authorized resources along  
39 with a cost string code for each state and field office to use for all resources. All

- 1 resources authorized through this process will be counted in the state's severity  
2 authorization limit, including extension of exclusive use aircraft contracts.
- 3 In order to support the BLM national aviation strategy, which includes  
4 prioritized allocation based on need, air resource mobility, and cost containment,  
5 a state may be directed to release an air resource to another state. All charges  
6 related to releasing an air resource will be covered by Fire and Aviation or the  
7 receiving state.
- 8 **National Preposition Funding**
- 9 National preposition funding is used to mobilize resources to areas with  
10 anticipated fire activity when other funding is not available. Units may request  
11 national preposition funding from FA to acquire supplemental fire operations  
12 assets to increase initial attack capability. National preposition funding may be  
13 used to mobilize resources when BLM units:
- 14 • Do not have available preparedness funding;
  - 15 • Do not have available short-term severity funding; or
  - 16 • Do not meet the criteria for use of national severity funding.
- 17 Approved national preposition funding may be used only for travel and per diem  
18 costs for the duration of the assignment, and overtime labor costs associated  
19 with the original preposition move.
- 20 Each State Director has been delegated the authority to expend national  
21 preposition funding within an allocation limit established annually through  
22 issuance of an Instruction Memorandum. The criteria stated above apply to this  
23 allocation.
- 24 • **National Preposition Request Process**
- 25 ○ Unit FMO identifies need and notifies State FOG representative. FOG  
26 representative informs SFMO.
  - 27 ○ FOG representative coordinates with unit FMO to verify need and  
28 determine asset types, numbers, and projected preposition location.
  - 29 ○ Requesting FOG representative queries FOG group and identifies  
30 available assets.
  - 31 ○ Requesting and sending FOG representatives jointly complete the BLM  
32 Preposition Request Form found on the BLM Fire Operations website.
  - 33 ○ Requesting FOG representative will submit the request electronically  
34 via e-mail to "BLM\_FA\_Prepositioning@blm.gov" to acquire Division  
35 of Fire Operations (FA-300) approval. If aviation assets are requested,  
36 FA-300 will coordinate with the National Aviation Office (FA-500)  
37 and secure FA-500 approval.
  - 38 ○ FA-300 will notify the requesting and sending FOG representatives via  
39 e-mail when the request is approved.

- 1     ○ After securing FA-300/500 approval, the requesting FOG
- 2       representative places name request order(s) for specified assets through
- 3       normal coordination system channels.
- 4     ○ Responding BLM assets will be assigned to a temporary host unit by
- 5       the receiving FOG representative.
- 6     ○ Responding assets, sending/receiving FOG representatives, and the
- 7       temporary host unit will negotiate length of assignment and crew
- 8       rotation, and ensure that prepositioned personnel meet work/rest
- 9       requirements.

10 BLM preposition funding request information can be found at the BLM Fire  
11 Operations website.

#### 12 **State Discretionary Preposition Funding**

13 Each State Director has been delegated the authority to expend preposition  
14 funding for prepositioning activities in amounts determined by the BLM Fire  
15 Leadership Team. This discretionary preposition funding authorization can be  
16 expended for appropriate preposition activities (according to the criteria  
17 established for National Preposition Funding) without approval from the AD,  
18 FA.

19 Each state will establish a process to document requests and approvals, and  
20 maintain information in a file.

#### 21 **BLM Fire Training and Workforce Development**

##### 22 **BLM Fire Training and Workforce Development Program**

23 The BLM National Fire Training and Workforce Development Program is  
24 located at NIFC and works for the BLM Chief, Preparedness/Suppression  
25 Standards. The program develops the wildland firefighting workforce through  
26 qualification standards, training standards, and workforce development  
27 programs in support of BLM fire management.

##### 28 ***BLM Standards for Fire Training and Workforce Development***

29 The BLM Fire Training and Workforce Development Program, in coordination  
30 with the BLM Fire Operations Group and the BLM Fire Training Committee, is  
31 responsible for publishing the *BLM Standards for Fire Training and Workforce*  
32 *Development*. The *BLM Standards for Fire Training and Workforce*  
33 *Development* provides fire and aviation training, qualifications, and workforce  
34 development program management direction. This document is available at  
35 [http://www.blm.gov/nifc/st/en/prog/fire/training/fire\\_training.html](http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html).

1 **BLM Firefighters General Non-Fire Training Requirements**2 **Administratively Determined (AD) and Emergency Firefighters (EFF)**

Training Required	Initial Requirement/ Frequency	Delivery Method/ Responsible Party
Defensive Driving (If operating GOV, including rental or leased, vehicle for official purposes.)	<ul style="list-style-type: none"> <li>- Prior to operating motor vehicle for official purposes.</li> <li>- Once every three years.</li> </ul>	<ul style="list-style-type: none"> <li>- Instructor-led (initial)</li> <li>- DOI Learn or Instructor-led (recurrency)</li> <li>- Unit Safety Manager</li> </ul>
First Aid/ Cardiopulmonary Resuscitation (CPR)	<ul style="list-style-type: none"> <li>- Upon initial employment.</li> <li>- Every 3 years or per certifying authority. At least two persons per crew (GS or AD) shall be current and certified.</li> </ul>	<ul style="list-style-type: none"> <li>- Instructor-led</li> <li>- Unit Safety Manager</li> </ul>

3 **Agency Permanent, Career Seasonal, and Temporary Firefighters**

Training Required	Initial Requirement/ Frequency	Delivery Method/ Responsible Party
Safety Orientation	<ul style="list-style-type: none"> <li>- Once</li> </ul>	<ul style="list-style-type: none"> <li>- Instructor-led</li> <li>- Supervisor</li> </ul>
Bloodborne Pathogens	<ul style="list-style-type: none"> <li>- Once: Awareness level. For employees not at increased risk (e.g., non-fireline support personnel)</li> <li>- Annually: For employees at increased risk due to assigned duties (e.g., IHC, Helitack, SMKJ, Engine Crew)</li> </ul>	<ul style="list-style-type: none"> <li>- Instructor-led</li> <li>- Unit Safety Manager</li> </ul>
Defensive Driving	<ul style="list-style-type: none"> <li>- Prior to operating motor vehicle for official purposes</li> <li>- Once every three years</li> </ul>	<ul style="list-style-type: none"> <li>- Instructor-led (initial)</li> <li>- DOI Learn or Instructor-led (recurrency)</li> <li>- Unit Safety Manager</li> </ul>
First Aid/ Cardiopulmonary Resuscitation (CPR)	<ul style="list-style-type: none"> <li>- Upon initial employment</li> <li>- Every 3 years or per certifying authority</li> </ul>	<ul style="list-style-type: none"> <li>- Instructor-led</li> <li>- Unit Safety Manager</li> </ul>
HAZMAT - First Responder Awareness Level	<ul style="list-style-type: none"> <li>- Upon initial employment</li> <li>- Annually</li> </ul>	<ul style="list-style-type: none"> <li>- Instructor-led</li> <li>- Unit Safety Manager</li> </ul>

Training Required	Initial Requirement/ Frequency	Delivery Method/ Responsible Party
<i>USGS Hazard Communications – GHS</i>	- Upon initial employment	- Instructor-led, DOI Learn - Unit Safety Manager, Unit Hazardous Materials Coordinator (Refer to WO IM No. 2013- 100)
Do What's Right/EEO/ Diversity	- Annually	- Instructor-led, DOI Learn, or as determined by EEO Manager - FMO (Do What's Right) - EEO Manager

For a complete listing of safety and health training, refer to the *BLM Manual Handbook 1112-2, Safety and Health for Field Operations*.

#### 1 Driver Training for Regular Drivers of Fire Equipment

2 All regular drivers of engines, water tenders, helicopter support vehicles, crew  
3 carriers, fuel tenders, and fire command and support vehicles must complete  
4 BL-300 *Fire Vehicle Driver Orientation* (initially) and RT-301 *Fire Vehicle*  
5 *Driver Refresher Training* (annually). Course materials are available at the BLM  
6 Fire Training website at  
7 [http://www.blm.gov/nifc/st/en/prog/fire/training/fire\\_training.html](http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html).

8 For the purposes of this policy, a regular driver is defined as an employee whose  
9 duties include driving fire equipment on a regular basis. This may include  
10 highway, off-road, city, mobile attack, and extreme terrain driving.

#### 11 BLM Firefighter Mandatory Physical Fitness Standards

12 The *Wildland Fire Qualifications System Guide* (PMS 310-1) establishes  
13 physical fitness standards for NWCG sanctioned firefighters. These standards  
14 are assessed using the Work Capacity Tests (WCT). Prior to attempting the  
15 WCT, all permanent, career-seasonal, temporary, Student Career Experience  
16 Program (SCEP), and AD/EFF employees who participate in wildland fire  
17 activities requiring a fitness level of arduous must participate in the DOI  
18 Medical Qualification Standards Program (DOI-MSP).

19 Employees serving in wildland fire positions that require a fitness rating of  
20 arduous as a condition of employment are authorized one hour of duty time each  
21 work day for physical fitness conditioning. Employees serving in positions that  
22 require a fitness rating of moderate or light may be authorized up to three hours  
23 per week.

24 Units will maintain a fitness program that ensures BLM firefighters will possess  
25 the physical ability to perform the duties of their positions safely and effectively

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1 while ensuring compliance with the requirements of the Work Capacity Test  
2 (WCT).

3 Information on the WCT and the DOI-MSP is located in Chapter 13 of this  
4 publication. Fitness and conditioning information may be found at  
5 [www.nifc.gov/FireFit/index.htm](http://www.nifc.gov/FireFit/index.htm).

#### 6 **BLM National Fire Operations Fitness Challenge**

7 The BLM national fire operations fitness challenge encourages and recognizes  
8 achievement in physical fitness by BLM firefighters. The fitness challenge  
9 provides a common system by which BLM firefighters can measure current  
10 fitness, establish fitness goals, and track fitness improvement. The fitness  
11 challenge is voluntary, but BLM firefighters are encouraged to participate and,  
12 at a minimum, meet the level 1 achievement. The fitness challenge tests  
13 participants in four basic exercises - push-ups, pull-ups, sit-ups and a timed run  
14 of either 1.5 or 3.0 miles. Test results are compiled into a final overall score.  
15 Unit and state offices are encouraged to support and recognize achievement in  
16 firefighter fitness. The BLM FA Division of Fire Operations will recognize high  
17 achievers annually. Specific information on the fitness challenge, the points  
18 chart, and the score sheet are located in the Toolbox section of the BLM Fire  
19 Operations Website.

#### 20 **Achievement levels:**

- 21 • Level 1: 100 points, minimum 20 points per event
- 22 • Level 2: 100 points, minimum 25 points per event
- 23 • Level 3: 200 points, minimum 25 points per event
- 24 • Level 4: 300 points, minimum 25 points per event
- 25 • Level 5: 400 points (maximum score)

#### 26 **Scoring:**

Points	3-mile Run	1.5-mile Run	Pull-ups (3 minutes)	Push-ups (3 minutes)	Sit-ups (3 minutes)
20	26:43	11:40	6	23	36
25	25:20	11:00	7	25	40
50	22:30	9:30	10	35	60

#### 27 **Interagency Fire Program Management Standards**

28 The BLM follows the *Interagency Fire Program Management Qualifications*  
29 *Standards and Guide (IFPM Standard)*, January 2000. The IFPM Standard does  
30 the following:

- 31 • Establishes minimum qualifications standards for 12 key fire management  
32 positions. These standards include 1) basic requirements, 2) specialized  
33 experience requirements, 3) NWCG incident management qualifications, 4)  
34 additional required training.

- 1 • Provides a “complexity rating for program management” table, which is
- 2 used to determine overall complexity of the unit-level fire program. This is
- 3 used because qualification standards for some of the 12 identified positions
- 4 are tied to fire program complexity.
- 5 State- and unit-level fire managers should consult human resources officials and
- 6 apply the IFPM Standard as appropriate. IFPM information is located at:
- 7 <http://www.ifpm.nifc.gov>.

#### 8 **BLM Hand Crews**

##### 9 **BLM Hand Crew Standards (all crew types)**

- 10 • **Language** – CRWB and FFT1: must be able to read and interpret the
- 11 language of the crew as well as English.
- 12 • **Flight Weight** – 5,300 pounds.
- 13 • **Personal gear** – Sufficient for 14-day assignments.
- 14 • **Physical fitness** – Arduous, all positions.
- 15 • **Required Equipment and PPE** – Fully equipped as specified in the
- 16 *Interagency Standards for Fire and Fire Aviation Operations*.

##### 17 **BLM Hand Crew Standards by Type**

Crew Type	Type 1	Type 2IA	Type 2	Fire Suppression Module
<b>Crew Size</b>	Minimum 18 Maximum 22	Minimum 18 Maximum 20	Minimum 18 Maximum 20	Minimum 5 Maximum 10
<b>Leadership Qualifications</b>	1 Supt. 1 Asst. Supt. 3 Squad Leaders <b>or</b> 1 Supt. 2 Asst. Supt. 2 Squad Leaders	1 CRWB 3 ICT5	1 CRWB 3 FFT1	1 SRB/ICT5 2 FFT1 2 FALA
<b>Incident Management Capability</b>	Operate up to 3 independent squads w/ T4 and T5 command capability	Operate up to 3 independent squads with T5 command capability	Operate as single crew in full crew configuration	Operates as a single module w/T5 command capability



Crew Type	Type 1	Type 2IA	Type 2	Fire Suppression Module
<b>Language Requirement</b>	All senior leadership including Squad Bosses and higher must be able to read and interpret the language of the crew as well as English.	Same as Type 1	Same as Type 1	Same as Type 1
<b>Crew Experience</b>	80% of the crewmembers must have at least 1 season experience in fire suppression	60% of the crewmembers must have at least 1 season experience in fire suppression	20% of the crewmembers must have at least 1 season experience in fire suppression	Agency only
<b>Full-Time Organized Crew</b>	Yes (work and train as a unit 40 hours per week)	No	No	No
<b>Crew Utilization</b>	National Shared Resource	Local unit control	Local unit control	Local unit control
<b>Communication</b>	7 programmable handheld radios 1 programmable mobile radio in each truck	4 programmable handheld radios	4 programmable handheld radios	2 programmable handheld radios
<b>Sawyers</b>	3 FAL2	3 FAL3	None	None
<b>Training</b>	40 hours annual training prior to assignment.	40 hours Basic firefighter training <b>or</b> once red carded, 4 hours annual fireline refresher training prior to assignment.	40 hours Basic firefighter training <b>or</b> once red carded, 4 hours annual fireline refresher training prior to assignment.	40 hours Basic firefighter training <b>or</b> once red carded, 4 hours annual fireline refresher training prior to assignment.

Crew Type	Type 1	Type 2IA	Type 2	Fire Suppression Module
<b>Logistics</b>	Squad-level agency purchasing authority	Crew-level agency purchasing authority recommended	No purchasing authority	Self-sufficient for 48 hours; purchasing authority recommended
<b>Maximum Weight</b>	5,300 lbs	5,300 lbs	5,300 lbs	N/A
<b>Dispatch Availability</b>	Available Nationally	Available Nationally	Variable	Variable
<b>Production Factor</b>	1.0	.8	.8	Variable
<b>Transportation</b>	Own transportation	Need transportation	Need transportation	Own transportation
<b>Tools and Equipment</b>	Fully equipped, Crew First Aid Kit	Not equipped	Not equipped	Variable
<b>Personal Gear</b>	Arrives with personal first aid kit, headlamp, 1 qt canteen, web gear, sleeping bag, personal gear for 14 days	Same as Type 1	Same as Type 1	Same as Type 1
<b>PPE</b>	All standard designated fireline PPE	Same as Type 1	Same as Type 1	Same as Type 1
<b>Certification</b>	Must be annually certified by the local host unit Agency Administrator or designee prior to being made available for assignment	N/A	N/A	N/A
<b>Works together 40 hours/week</b>	Yes	No	No	No

- 1 **BLM Interagency Hotshot Crews (IHCs)**  
 2 BLM IHCs will meet all requirements found in the *Standards for Interagency*  
 3 *Hotshot Crew Operations (SIHCO)* and the *Interagency Standards for Fire and*  
 4 *Fire Aviation Operations* while providing a safe, professional, mobile, and  
 5 highly skilled hand crew for all phases of fire management and incident  
 6 operations.

7 **BLM IHC Locations**

State	Crew	Location
AK	Chena	Fairbanks
	Midnight Sun	
CA	Diamond Mountain	Susanville
	Kern Valley	Bakersfield
CO	Craig	Craig
ID	Snake River	Pocatello
MS	Jackson	Jackson
NV	Silver State	Carson City
NV	Ruby Mountain	Elko
OR	Vale	Vale
UT	Bonneville	Salt Lake City

8 **BLM IHC Annual Crew Mobilization**

- 9 Prior to becoming available for mobilization, each BLM IHC will complete the  
 10 BLM Hotshot Crew Preparedness Review Checklist (#18) and the Annual IHC  
 11 Mobilization Checklist (SIHCO, Appendix C). The IHC Superintendent,  
 12 supervising fire management officer, and supervising agency administrator will  
 13 complete both checklists. Completed and signed checklists will be sent to the  
 14 State Fire Management Officer for concurrence. Upon concurrence, the State  
 15 Fire Management Officer will notify the appropriate Geographic Area  
 16 Coordination Center and the Branch Chief, Preparedness and Suppression  
 17 Standards (FA-320) of crew status, and provide copies of the BLM Hotshot  
 18 Crew Preparedness Review Checklist (#18) and the Annual IHC Mobilization  
 19 Checklist (SIHCO, Appendix C) to each.

20 **BLM IHC Decertification and Recertification**

- 21 Changes to crew qualifications and capabilities should be closely examined by  
 22 the superintendent to ensure that all requirements contained in the SIHCO are  
 23 met. Any BLM IHC that is unable to meet the minimum requirements will be  
 24 placed in Type 2IA status until the requirements can be met. Exceptions to the  
 25 requirements must be requested by the State Fire Management Officer (for IHCs  
 26 based in the Eastern and Southern Geographic Areas, the request must be made

- 1 by the State Director, Eastern States), and may be granted on a case-by-case  
 2 basis by the Chief, Division of Fire Operations (FA-300).
- 3 Short-term inability to meet the requirements may not necessarily require  
 4 recertification, but will require completion of the Annual IHC Mobilization  
 5 Checklist (SIHCO, Appendix C) and concurrence from the Branch Chief,  
 6 Preparedness and Suppression Standards before regaining IHC status. Longer-  
 7 term or more significant failures to meet the requirements may require the full  
 8 recertification process as stated in the SIHCO, with oversight from the Division  
 9 of Fire Operations.
- 10 **BLM IHC Size**  
 11 Standard crew size is 20 with a maximum of 22. For national mobilization,  
 12 BLM IHCs will have a minimum of 18 personnel. BLM IHC superintendents  
 13 will obtain prior approval from the respective GACC when the assignment  
 14 requires fixed wing transport of an IHC with more than 20 personnel.
- 15 **BLM IHC Status Reporting System**  
 16 BLM IHCs will utilize the National IHC Status Reporting System to report  
 17 availability, assignment status, and unavailability periods. Refer to Chapter 13  
 18 for instructions on how to report.
- 19 **BLM IHC Training and Qualification Requirements**

Role	NWCG Qualification	Fire Training
Firefighter	FFT2	IS-700.A <i>NIMS: An Introduction</i> I-100 <i>Intro to ICS</i> S-130 <i>Firefighter Training</i> S-190 <i>Intro to Wildland Fire Behavior</i> L-180 <i>Human Factors on the Fireline</i>
Senior Firefighter	FFT1	All the above plus: S-211 <i>Portable Pumps and Water Use</i> S-212 <i>Chain Saws</i> S-131 <i>Firefighter Type 1</i> S-133 <i>Look Up, Look Down, Look Around</i> S-270 <i>Basic Air Operations</i> S-290 <i>Intermediate Fire Behavior</i>
Squad Boss	ICT5 CRWB <sup>1</sup>	All the above plus: I-200 <i>Basic ICS</i> S-215 <i>Fire Ops in the WUI</i> S-230 <i>Crew Boss (Single Resource)</i> S-219 <i>Firing Operations</i> S-260 <i>Incident Business Management</i> L-280 <i>Followership to Leadership</i>

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Role	NWCG Qualification	Fire Training
Assistant Superintendent	STCR ICT4	All the above plus: IS-800.B <i>NRF: An Introduction</i> I-300 <i>Intermediate ICS</i> S-200 <i>Initial Attack IC</i> S-330 <i>Task Force/Strike Team Leader</i> S-390 <i>Intro to Wildland Fire Behavior Calculations</i> L-380 <i>Fireline Leadership</i> M-410 <i>Facilitative Instructor or equivalent</i>
Superintendent	TFLD ICT4 FIRB	All the above

<sup>1</sup>CRWB will be required for BLM IHC Squad Bosses on October 1, 2017.

**1 BLM Fire Suppression Modules**

2 BLM Fire Suppression Modules are comprised of 5-10 firefighters and are used  
3 primarily for wildfire suppression, fuels reduction, and other fire management  
4 duties. They are capable of performing self-contained initial attack suppression  
5 operations, and can generally provide incident management capability at the  
6 Type 5 level.

**7 BLM Fire Suppression Module Mobilization**

8 BLM Fire Suppression Modules will be statused, tracked, and mobilized in the  
9 ROSS system using an Overhead Group Request; Module, Wildland Fire, Type  
10 1 (WFM1) or Type 2 (WFM2).

**11 BLM Wildland Fire Modules**

12 Refer to Chapter 13.

**13 BLM Engines**

14 BLM engines carry 2-6 firefighters and are used primarily for wildfire  
15 suppression, fuels reduction, and other fire management duties. They are  
16 capable of performing self-contained initial attack suppression operations, and  
17 can generally provide single resource incident management capability up to the  
18 Type 4 level.

**19 BLM Engine Ordering**

- 20 • BLM engines will status themselves with their local dispatch center in  
21 accordance with local policy and procedure.  
22 • Availability of BLM engines for off unit assignments rests with local unit  
23 fire management.

- 1 • BLM units needing engines from another state for support will contact their
  - 2 state operations lead with a request.
  - 3 • The state operations lead will contact the FA Division of Operations or
  - 4 other BLM state office operations leads with the request.
- 5 **BLM Engine Typing**
- 6 BLM engines are typed according to interagency standards as established by
  - 7 NWCG. See Chapter 14 for engine typing standards.
- 8 **BLM Engine Minimum Staffing Requirements**
- 9 All BLM engines will meet these staffing standards on every fire response:
  - 10 • BLM engines operating with five or more personnel will always have a
  - 11 fully qualified ENOP (other than the Engine Boss). The Engine Boss must
  - 12 be qualified as ICT4;
  - 13 • BLM engines operating with four personnel will always have an FFT1
  - 14 (other than the Engine Boss). The Engine Boss must be qualified as ICT5;
  - 15 • BLM Engines operating with three or fewer personnel must have an Engine
  - 16 Boss qualified as ICT5 or higher; and
  - 17 • Chase vehicles are considered part of the engine staffing.
- 18 BLM utilizes the term "Engine Captain" to describe an individual whose
- 19 position description reflects primary responsibility as a supervisory wildland
- 20 firefighter of a wildland fire engine in a BLM fire management organization.
- 21 "Engine Captain" is not a fireline qualification.

BLM WCF Vehicle Class	NWCG Type Class	Engine Boss	Engine Operator	Engine Crewmember
625 Unimog	4	1	1	1
626 Unimog	4	1	1	1
650 Hummer	6	1		1
662 Light	6	1		1
663 Light	6	1		1
664 Enhanced Light	6	1		1
665 Interface	3	1		2
667 Heavy Engine	3, 4	1		2
668 Super-heavy Engine <sup>1</sup>	3, 4	1	1	1
668 Super-heavy Tactical Tender <sup>1</sup>	2 (Tender)	1		1
669 Tactical Water Tender	1, 2 (Tender)		1	1
669 Non-Tactical Water Tender <sup>2</sup>	1, 2, 3 (Tender)	See footnote 2 below	See footnote 2 below	See footnote 2 below

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<sup>1</sup>All WCF class 668 super-heavy engines will be minimally staffed as Type 3 or 4 engines with an Engine Boss, Engine Operator, and Engine Crewmember. All WCF class 668 super-heavy tactical water tenders (2 seats, Tatra chassis, volume pump rated at 250 GPM and 150 PSI or better) will be minimally staffed with an Engine Boss and an Engine Crewmember.

<sup>2</sup>A WCF class 669 non-tactical water tender may be staffed with a crew of one driver/operator when it is used in a support role as a fire engine refill unit or for dust abatement. These operators do not have to pass the Work Capacity Test (WCT) but are required to take annual refresher training, and possess a CDL with tank endorsement, and air brake endorsement (if applicable).

- 1 When staffing a BLM engine with an employee from another agency on a short-
- 2 term basis (detail, severity assignment, etc.), the qualification standards of that
- 3 agency will be accepted. These qualifications must meet PMS 310-1
- 4 requirements for the position that the detailed employee is serving in. Fire
- 5 Management Officers should consider requiring these employees to attain BLM
- 6 required training and qualifications for long-term details/assignments.

#### 7 **BLM Engine Training and Qualification Requirements**

- 8 BLM has established additional training and qualification requirements for
- 9 Engine Operator (ENOP) and Engine Boss (ENGB). These additional
- 10 requirements are listed below.

Fireline Position	Required Training and Qualifications
Engine Crewmember	IS-700.A <i>NIMS: An Introduction</i> I-100 <i>Introduction to ICS</i> L-180 <i>Human Factors in the Wildland Fire Service</i> S-130 <i>Firefighter Training</i> S-190 <i>Introduction to Wildland Fire Behavior</i>
Engine Operator	Qualified as FFT1 PMS-419 <i>BLM Engine Operator Course</i> L-280 <i>Followership to Leadership</i> S-131 <i>Firefighter Type 1</i> S-133 <i>Look Up/Down/Around</i> S-211 <i>Portable Pumps and Water Use</i> S-212 <i>Wildland Fire Chain Saws</i> S-260 <i>Interagency Incident Business Management</i> S-290 <i>Intermediate Wildland Fire Behavior</i>
Engine Boss	Qualified as ENOP and ICT5 I-200 <i>Basic ICS</i> S-215 <i>Fire Operations in the Wildland/Urban Interface</i> S-230 <i>Crew Boss (Single Resource)</i> S-290 <i>Intermediate Wildland Fire Behavior</i>

#### 11 **BLM Engine Driver Requirements**

- 12 For engines greater than 26,000 GVWR, the driver of the engine is required to
- 13 possess a commercial driver's license. Refer to Chapter 7 for more information.

1 WCF class 650 and 668 vehicle drivers are required to complete *WCF Class 650*  
2 *and 668 Driver and Maintenance Training* (once). *WCF Class 650 and 668*  
3 *Driver and Maintenance Training* may be conducted at the unit/zone/state level  
4 utilizing qualified and experienced 650 and 668 operators, with prior approval  
5 and oversight by the NFEP. The NFEP maintains a list of qualified cadre  
6 members to assist as needed. NFEP staff are available as unit instructors; the  
7 hosting unit is responsible for course coordination.

8 All hands-on components of engine driver training courses will be conducted on  
9 the specific vehicle or vehicle type that the driver will be using.

10 Equivalent courses that satisfy driver training requirements, such as the National  
11 Safety Council sanctioned *Emergency Vehicle Operator Course* (EVOC), will  
12 be approved in writing by the Division Chief, Fire Operations, FA on a case-by-  
13 case basis.

14 BLM engine driver training satisfies the Bureau requirement for 4X4 driver  
15 training stated in H-1112-1, Chapter 15.

#### 16 **BLM Smokejumpers**

17 BLM Smokejumpers operate in teams of 2-8 firefighters and are used primarily  
18 for wildfire suppression, fuels reduction, and other fire management duties.  
19 They are capable of performing self-contained initial attack suppression  
20 operations, and commonly provide incident management capability at the Type  
21 3 level. BLM Smokejumpers provide personnel to Type 1 and Type 2 incidents  
22 as command and general staff or other miscellaneous single resource. The  
23 primary locations of the BLM smokejumper bases are Boise, Idaho and  
24 Fairbanks, Alaska.

#### 25 **BLM Smokejumper (SMKJ) Operations**

26 BLM smokejumper operational and administrative procedures are located in the  
27 *Interagency Smokejumper Operations Guide (ISMOG)*, the *BLM Ram-Air*  
28 *Training Manual (RATM)*, the *Great Basin Smokejumpers User Guide*, *Alaska*  
29 *Geographic Area Coordination Center Mob Guide*, and other pertinent  
30 agreements and operating plans.

#### 31 **BLM Smokejumper Mission**

32 BLM smokejumper aircraft are dispatched with a standard load of 8  
33 smokejumpers and equipment to be self-sufficient for 48 hours. A typical  
34 smokejumper mission takes 30 minutes over a fire. A spotter (senior  
35 smokejumper in charge of smokejumper missions) serves as the mission  
36 coordinator on smokejumper missions. This may include coordinating airspace  
37 over a fire until a qualified ATGS arrives.



**1 BLM Smokejumper Coordination and Dispatch**

2 Smokejumpers are a national shared resource and are ordered according to  
3 geographic area or national mobilization guides. The operational unit for  
4 Smokejumpers is "one load" (6-10 smokejumpers). Specific information on the  
5 coordination, dispatch, ordering, and use of BLM smokejumpers can be found in  
6 the *BLM Great Basin Smokejumpers User Guide*, and in the *Alaska Geographic*  
7 *Area Coordination Center Mob Guide*. Contact BLM smokejumpers in Boise at  
8 (208) 387-5426 or in Alaska at (907) 356-5540 for these publications.

**9 BLM Ram-Air Parachute System Management**

10 The BLM has exclusive authority for all aspects of BLM Ram-Air parachute  
11 system management and operations. This includes:

- 12 • System Changes and Modifications – All BLM Ram-Air parachute system  
13 modifications, research, and development will be documented and approved  
14 using the BLM Smokejumper Modification Document (MODOC) System.
- 15 • Ram-Air Training – All smokejumpers utilizing the BLM Ram-Air  
16 Parachute system will adhere to the training processes and procedures in the  
17 *BLM Ram-Air Training Manual*.
- 18 • Malfunction Abnormality and Reporting System (MARS) – The MARS is a  
19 BLM smokejumper system used to report and document malfunctions and  
20 abnormalities associated with BLM smokejumper parachute jumping,  
21 parachute equipment, and parachute related aircraft operations. The MARS  
22 database is used by BLM smokejumper management to analyze  
23 malfunctions and abnormalities, identify trends, and initiate corrective  
24 actions. BLM retains exclusive authority to apply corrective actions to all  
25 MARS.
- 26 • BLM Approved Smokejumper Equipment List – All smokejumpers using  
27 the BLM Ram-Air parachute system will only utilize equipment listed in the  
28 BLM Approved Smokejumper Equipment List unless specific approval is  
29 authorized through a *BLM Smokejumper Modification Document*  
30 (MODOC).
- 31 • Incidents, Reviews, and Accident Investigations – BLM smokejumpers will  
32 follow all procedures for accident review and investigation as outlined in  
33 the *Interagency Standards for Fire and Fire Aviation Operations* Chapters  
34 2 and 18. The BLM smokejumpers will report incidents/accidents as  
35 appropriate, on the *MTDC Injury Reporting Form*, and the *Interagency*  
36 *Smokejumper Mission Incident Worksheet*. A BLM Smokejumper subject  
37 matter expert will participate in any investigation or review involving the  
38 BLM Ram-Air Parachute System.
- 39 • Adherence to Agency Policies and Manuals – BLM will adhere to its own  
40 policies, guidelines, manuals, handbooks and other operational documents  
41 as they pertain to smokejumper parachuting operations. The Smokejumper  
42 Base Managers will work through established command channels to change  
43 BLM Ram-Air Parachute System policies, guidelines, manuals, handbooks

- 1 and other operational documents, and/or to request research and  
2 development of new products.

3 **BLM Smokejumper Aircraft**

- 4 BLM Smokejumpers use aircraft approved by the Interagency Smokejumper  
5 Aircraft Screening and Evaluation Subcommittee (SASES). All aviation  
6 operations will be performed according to agency policies and procedures. BLM  
7 Smokejumper-specific aviation standards are identified in the *BLM*  
8 *Smokejumper Air Operations Manual*.

9 **BLM Smokejumper Training**

- 10 To ensure proficiency and safety, smokejumpers complete annual training in  
11 aviation, parachuting, fire suppression, administration, and safety. Experienced  
12 jumpers receive annual refresher training in these areas. First-year  
13 smokejumpers undergo a rigorous 4-5 weeks long smokejumper training  
14 program.

- 15 Candidates are evaluated to determine:

- 16 • Level of physical fitness  
17 • Ability to learn and perform smokejumper skills  
18 • Ability to work as a team member  
19 • Attitude  
20 • Ability to think clearly and remain productive in a stressful environment

21 **BLM Smokejumper Training and Qualification Targets**

Position	IQCS Target	Smokejumper Training Target
Department Managers	T1 and T2 C&G	
Spotter	ICT3, DIVS, ATGS RXB2, SOFR	
Senior Smokejumper	STLD, TFLD	Senior Rigger, FOBS
Smokejumper	ICT4, CRWB, FIRB	FEMO
Rookie Smokejumper	ICT5	

22 **BLM Smokejumper Jump Proficiency Guideline**

- 23 To ensure proficiency and safety, it is the goal of BLM smokejumpers to  
24 perform a training or operational jump every 14 days. A longer duration time  
25 period between jumps can occur due to fire assignments or other duties.  
26 Guidelines for managing gaps between jumps beyond 14 days are included in  
27 the BLM Ram-Air Training Manual. Funding for currency and/or training jumps  
28 are included in the home unit's normal preparedness budgets. Units hosting  
29 contingents or spike bases will not be charged for any proficiency jump or  
30 related activities.

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1 **BLM Smokejumper Physical Fitness Standards**

2 The national smokejumper physical fitness standards are mandatory. All BLM  
3 smokejumpers must pass the national smokejumper physical fitness standards in  
4 order to participate in smokejumper parachute training.

5 The BLM smokejumper physical fitness target standards are voluntary. The  
6 target standards are established to provide BLM smokejumpers a common  
7 standard against which to gauge their physical fitness level. BLM smokejumpers  
8 are encouraged to meet or exceed these standards.

National Smokejumper Standard	
(Two options)*:	
A.	1.5-mile run in 10:47 minutes or less, or
B.	3-mile backpacking with a 110-pound load within 65 minutes.
30 push-ups	
6 pull-ups	
Arduous Work Capacity Test	

\*This element is tested during Smokejumper Rookie Training.

9 **Retesting**

10 National smokejumper physical fitness retesting criteria closely follows similar  
11 criteria for the Work Capacity Test stated in Chapter 13 of this document.

12 Retesting criteria include:

- 13 • Returning BLM smokejumpers will be provided up to three opportunities to  
14 pass the national smokejumper physical fitness standards. Each retest will  
15 occur no sooner than 24 hours after failing the previous test, and will  
16 consist of **all** elements of the smokejumper physical fitness test.
- 17 • BLM smokejumper candidates will be provided one opportunity to pass the  
18 BLM National Smokejumper Standard.
- 19 • If an employee sustains an injury (verified by a licensed medical provider)  
20 during a test, the test will not count as an attempt. Once an injured  
21 employee has been released for full duty, the employee will be given time  
22 to prepare for the test (not to exceed 4 weeks).

23 **BLM Exclusive Use Helitack Crews**

24 The BLM contracts for the exclusive use of vendor supplied and supported  
25 helicopters. These aviation resources are Type 2 (medium) or Type 3 (light)  
26 helicopters and are located at BLM Districts throughout the western United  
27 States. Helitack Crews are assigned to manage each contracted helicopter and  
28 perform suppression and support operations to accomplish fire and resource  
29 management objectives.

- 1 Each contract specifies a Mandatory Availability Period (MAP) that the aircraft  
 2 will be assigned for the exclusive use of the BLM. The National Aviation Office  
 3 provides the funding to pay for the aircraft's availability costs.
- 4 The BLM host unit is responsible for providing a Helitack Crew that meets the  
 5 minimum experience and qualification requirements specified in the Exclusive  
 6 Use Fire Helicopter Position Prerequisites in Chapter 16 of this document. Each  
 7 functional or supervisory level must have met the experience and qualification  
 8 requirements of the next lower functional level. The minimum daily staffing  
 9 level (7 day staffing) must meet the level indicated in the *Interagency Helicopter*  
 10 *Operations Guide (IHOG)* Chapter 2 (BLM helicopters operated in Alaska need  
 11 only be staffed with a qualified Helicopter Manager).
- 12 The host unit is also responsible for providing administrative support, and  
 13 *Interagency Helicopter Operations Guide (IHOG)* specified equipment,  
 14 vehicles, and facilities for their Helitack Crews and any other associated  
 15 specialized equipment.

16 **BLM Exclusive Use Helicopter Locations**

State	Location	NWCG Type
AK	Fairbanks	2 (4 ea.), 3 (2 ea.)
AZ	Wickenburg	3 (shared with MT)
CA	Apple Valley	2
	Ravendale	3
CO	Rifle	3
ID	Boise	3
	Twin Falls	3
MT	Lewistown	3 (shared with AZ)
	Miles City	3
NV	Elko	3
	Ely	3
	Las Vegas	3
OR	Burns	3
	Lakeview	2
	Vale	3
UT	Moab	3
	Salt Lake City	3
	St. George	3
WY	Rawlins	3

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- 1 **Target (Desired) Exclusive Use Helitack Crew Qualifications and**  
 2 **Composition**  
 3 The following chart indicates **target** IQCS qualifications for BLM exclusive use  
 4 helitack crews. These targets are NOT required, but provide direction for  
 5 increased program capabilities. This chart does not replace the minimum  
 6 requirements specified in Chapter 16.

Role	Target IQCS Qualifications	Target Training
Fire Helicopter Crew Supervisor	ICT3 or DIVS, HEB1, PLDO, HLCO, ASGS	S-300 or S-339, S-378, L-381, S-375
Assistant Fire Helicopter Crew Supervisor	TFLD, HEB2, PLDO	S-215, S-330, S-390, S-371, L-380
Fire Helicopter Squad Boss	ICT4, HMGB	S-200, S-230, S-290, M-410, S-230
Helicopter Senior Crew Member	ICT5, HMGB(T)	S-372, L-280
Helicopter Crew Member	FFT1, HECM	S-131, S-133

7 **Management Actions for Noncompliant Remote Automatic Weather**  
 8 **Stations (RAWS)**

9 Fire managers must be cognizant that all RAWS will not be 100% compliant  
 10 with standards established in the *Interagency Wildland Fire Weather Station*  
 11 *Standards and Guidelines* (NWCG PMS 426-3) at all times. Furthermore, even  
 12 when RAWS are fully compliant and operational, RAWS data should be used  
 13 only in conjunction with other predictive services and fireline data sources in  
 14 fire management decision making, particularly at the tactical level.

15  
 16 Fire managers must monitor RAWS status and recognize when a station is  
 17 noncompliant. Noncompliant stations are broadly categorized as follows:

- 18 • *Inoperative station.* This station is noncompliant but poses no danger of  
 19 providing inaccurate weather data because it is not transmitting data.
- 20 • *Operating station that has exceeded the required maintenance cycle.* These  
 21 stations are identified in the weekly "Wildland Fire Management  
 22 Information (WFMI) weather Noncompliance Report," which is widely  
 23 distributed by email and available at <http://raws.fam.nwcg.gov/nfdrs.html>.  
 24 Although transmitted data may be accurate, noncompliance means the data  
 25 should not be trusted.
- 26 • *Operating station that transmits data outside of NWCG PMS 426-3*  
 27 *standards due to faulty sensors or components.* These stations are most  
 28 easily identified by local users who are familiar with environmental trends

- 1 and conditions and can recognize data that seems abnormal or clearly  
2 unrepresentative of current conditions. This usually indicates faulty sensors  
3 or components.
- 4 When noncompliant RAWS are identified or suspected, fire managers should  
5 implement the following hazard mitigation actions to expedite RAWS repair and  
6 to reduce risk to fire personnel:
- 7 • Contact the RAWS Help Desk (208-387-5475 or rawshelp@blm.gov).  
8 Identify the station and discuss troubleshooting steps or schedule the  
9 necessary repairs. If there are trained personnel in the local area, the Help  
10 Desk may be able to ship the required parts and coordinate the repairs via  
11 phone. If a professional technician needs to make a site visit, provide a local  
12 individual to assist, and use this opportunity to provide training for local  
13 personnel.
  - 14 • Ensure that appropriate personnel and organizations know which stations  
15 are out of compliance, and which sensors are affected, if possible. Direct  
16 them to alternative weather data sources if possible.
  - 17 • Use nearby compliant RAWS if available.
  - 18 • Based on local knowledge of specific RAWS problems (e.g. which sensor is  
19 out of compliance), separate reliable data from unreliable data.
  - 20 • Consider using data from belt weather kit readings, other portable device  
21 observations, Predictive Services or National Weather Service offices, or  
22 non-fire weather sources such as airports.
- 23 Fire managers should ensure that locally held portable RAWS are compliant  
24 prior to use; noncompliant portable RAWS will not be activated for data  
25 processing via WFMI-weather.

#### 26 **Sage Grouse Conservation Related to Wildland Fire**

27 Firefighter and public safety has been, and continues to be, the BLM's highest  
28 fire management priority. Protecting, conserving, and restoring sage-grouse  
29 habitat is BLM fire management's highest natural resource objective.

30 The BLM's management responsibilities include taking actions on public lands  
31 to control and manage wildfire and invasive plants in order to protect, conserve,  
32 and restore sage-grouse habitat. The BLM's goal is to limit acres burned and  
33 damaged within and adjacent to sage-grouse habitat. The BLM will meet this  
34 goal through the certain management actions, including those involving  
35 renewable resource authorizations, fuels management, fire operations, and  
36 emergency stabilization prioritization. The BLM will place a high priority on  
37 treatments that will aid fire suppression and reduce fire threats within and  
38 adjacent to sage-grouse habitat. The following provides guidance to convey  
39 leader's intent while recognizing that not all of these actions and activities apply  
40 to all affected offices and successful implementation may look different  
41 throughout the BLM.

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- 1 Prior to, during, and following wildland fires, BLM field offices will:
- 2 • Protect, conserve, and restore sage-grouse habitat.
  - 3 • Strive to maintain and enhance resilience of sage-grouse habitat.
  - 4 • Foster existing relationships with partners and develop new cooperative
  - 5 relationships that will help bolster BLM capacity to protect sage grouse
  - 6 habitat.
- 7 With regard to fire operations in sage grouse habitat, BLM field offices will:
- 8 • Prioritize firefighter and public safety including following our “Standard
  - 9 Firefighting Orders,” mitigate any “Watch-Out Situations,” and apply the
  - 10 principles of Lookouts, Communications, Escape Routes, and Safety Zones
  - 11 on all fire assignments.
  - 12 • Maintain a strong and proactive preparedness capability when conditions
  - 13 indicate potential for multiple ignitions and large fire growth.
  - 14 • Maintain situational awareness during suppression resource drawdown
  - 15 levels under multiple ignition and large fire growth conditions.
  - 16 • Boost suppression capability in critical sage grouse habitat when severe fire
  - 17 weather conditions are predicted.
  - 18 • Generate interest in local residents and public land users becoming a trained
  - 19 and equipped fire response force to work in concert with existing partners.
  - 20 • Expand the use of Rangeland Fire Protection Association (RFPA) or
  - 21 Volunteer Fire Department (VFD) suppression resources.
  - 22 • Continue and expand efforts to train and use local, non-federal agency
  - 23 individuals as liaisons in wildland fire detection and suppression operations.
- 24 The Fire and Aviation Directorate conducts large fire assessments for wildfires
- 25 occurring in sage grouse habitat. Large fire assessments evaluate preparedness
- 26 actions taken prior to large fire occurrence and response actions taken when
- 27 large fires occur. These assessments will:
- 28 • Provide proactive feedback to State Directors, District Managers, and Fire
  - 29 Management Officers by identifying areas for improvement, successes, and
  - 30 best management practices;
  - 31 • Confirm compliance with *Secretarial Order No. 3336, Rangeland Fire*
  - 32 *Prevention Management, Restoration* and BLM IM-2015-016;
  - 33 • Minimally impact local units; and
  - 34 • Provide baseline data to inform state and national post-season reviews.
- 35 These assessments are NOT a review of fireline operations.
- 36 A Large Fire Assessment will be conducted on wildland fires with any BLM-
- 37 administered lands that have 10,000 acres of Primary Habitat Management Area
- 38 (PHMA)/General Habitat Management Area (GHMA)/Sagebrush Focal Area
- 39 (SFA) burned. For additional guidance, see FA IM-2015-030.

- 1 A webpage containing updated maps, instruction memoranda, conservation
- 2 measures, best management practices, and spatial data pertaining to sage-grouse
- 3 for the fire and fuels management functions can be accessed at
- 4 <http://www.nifc.gov/fireandsagegrouse/>. Using locally-developed data to
- 5 supplement these resources is encouraged.

#### 6 **BLM Use of Wildland Fire Decision Support System (WFDSS)**

- 7 In addition to WFDSS guidance in Chapter 11, the BLM has established the
- 8 following additional policy requirements for the WFDSS:
  - 9 • Publishing decisions for initial attack fires in WFDSS is optional. All fires
  - 10 which escape initial attack or are being managed for multiple objectives
  - 11 require a published decision.
  - 12 • Use of the web-based WFDSS application is required. If internet
  - 13 connections or servers are unavailable, WFDSS documentation will be
  - 14 completed using the “temporary WFDSS paper form” and entered into the
  - 15 web-based application as soon as it becomes available.
  - 16 • Minimum WFDSS documentation requirements are available at the BLM
  - 17 Fire Operations website.
  - 18 • State and field units will ensure that WFDSS Strategic Objectives and
  - 19 Management Requirements reflect guidance contained in current Fire
  - 20 Management Plans and Land/Resource Management Plans.
  - 21 • BLM units may use the Spatial Fire Planning process in WFDSS if criteria
  - 22 in Instruction Memorandum No. FA IM-2014-010 are met.
  - 23 • BLM Agency Administrators must meet fire training requirements for
  - 24 Agency Administrators, as specified in in this chapter.
  - 25 • BLM Agency Administrators will maintain WFDSS user profiles, allowing
  - 26 them to approve wildfire decisions documented in WFDSS.
  - 27 • BLM approvers of wildfire decisions documented in WFDSS are displayed
  - 28 in the Department of the Interior (DOI) WFDSS Approval Requirements
  - 29 Table in Chapter 11 of this document.
  - 30 • Wildfire decisions, documented in WFDSS and approved by BLM Agency
  - 31 Administrators, constitute awareness of estimated costs of all the courses of
  - 32 actions (i.e., estimated final fire costs). This cost, shown in the WFDSS
  - 33 Cost tab, will be developed from sources such as I-Suite, ICS-209
  - 34 summaries, finance units within incident management teams, estimation
  - 35 spreadsheets, or other sources.
  - 36 • To facilitate effective wildfire management, *MS-1203* has been amended to
  - 37 delegate authority to local managers to approve all wildfire decisions
  - 38 regardless of cost thresholds. BLM District/Field Managers will approve
  - 39 wildfire decisions for fires which:



- 1     ○ Escape initial attack;
  - 2     ○ Are managed for multiple objectives; or
  - 3     ○ Exhibit high complexity due to one or more of the following: values at
  - 4       risk, potential for growth, potential duration, or other factors requiring
  - 5       Agency Administrator awareness.
  - 6     • The BLM DM/FM is responsible for approval of wildfire decisions on
  - 7       BLM-managed lands in Alaska.
  - 8     • To ensure awareness of suppression expenditures at all levels, local agency
  - 9       administrators will provide written notification to state directors or the
  - 10      bureau director as cost thresholds (Chapter 11) are approached or reached.
  - 11    • As approvers of WFDSS decisions, Agency Administrators will ensure that
  - 12      periodic assessments are completed until the fire is declared out.
- 13 **Wildfire Decision Approval Process in Alaska for Non-BLM Lands**
- 14    • In *Department Manual 620 Chapter 2*, BLM is delegated the responsibility
  - 15      to provide cost-effective wildland fire suppression services on DOI-
  - 16      managed and Alaska Native lands. In this direction, BLM-Alaska Fire
  - 17      Service (AFS) participates in the wildfire decision approval process for fires
  - 18      on those lands.
  - 19    • For fiscal purposes, The AFS Manager and AFS Fire Management Officers
  - 20      serve as agency administrators for approving wildfire decisions documented
  - 21      in WFDSS. Jurisdictional agencies are still responsible for identifying
  - 22      strategic objectives, management requirements, and management
  - 23      constraints.
  - 24      ○ In addition to the Jurisdictional Agency Administrator, AFS Fire
  - 25        Management Officers serve as agency administrators for fires less than
  - 26        \$5 million.
  - 27      ○ In addition to the Jurisdictional Agency Administrator, the AFS
  - 28        Manager serves as an agency administrator for fires \$5 million and
  - 29        greater.
  - 30      ○ To ensure awareness of suppression expenditures at all levels, the AFS
  - 31        Manager will provide written notification to the state director or the
  - 32        bureau director as cost thresholds (Chapter 11) are approached or
  - 33        reached.

34 **BLM Global Positioning System (GPS) Datum and Coordinate Format**

35 **Standard**

36 To ensure safe and efficient suppression operations, all BLM fire resources will

37 use a standard GPS datum and latitude/longitude (coordinate) format when

38 communicating GPS references. The standard datum is WGS84, and the

39 standard coordinate format is Degrees Decimal Minutes (DDM). For other

40 activities (e.g., mapping, fire reporting, planning) agency standards will apply.

1 **Chapter 3**  
2 **National Park Service Program Organization and**  
3 **Responsibilities**

4 **Introduction**

5 This chapter summarizes specific requirements for NPS fire management  
6 programs. Fire managers should consult DO-18 Wildland Fire and RM-18  
7 Wildland Fire for full guidance and descriptions of requirements summarized in  
8 this chapter. If there is a discrepancy between guidance found in this document  
9 and DO or RM-18, information contained herein will be considered authoritative  
10 as updates occur on a more frequent cycle than either the DO or RM.

11 **Agency Administrator Roles**

12 **Director**

13 The Director of the National Park Service is responsible to the Secretary of the  
14 Interior for fire management programs on public lands administered by the  
15 National Park Service. The Division of Fire and Fire Aviation Management is  
16 responsible to the Director for policy formulation and program oversight.

17 The Chief, Division of Fire and Aviation Management will meet the required  
18 elements outlined in the *Management Performance Requirements for Fire*  
19 *Operations*.

20 **Regional Director**

21 The Regional Director is responsible to the Director for fire management  
22 programs and activities within their region.

23 The Regional Director will meet the required elements outlined in the  
24 *Management Performance Requirements for Fire Operations* and ensure  
25 training is completed to support delegations to line managers and principal  
26 acting.

27 **Park Superintendent**

28 The Park Superintendent is responsible to the Regional Director for the safe and  
29 efficient implementation of fire management activities within their unit,  
30 including cooperative activities with other agencies or landowners in accordance  
31 with delegations of authorities. The Park Superintendent or principal acting will  
32 meet the required elements outlined in the *Management Performance*  
33 *Requirements for Fire Operations*.

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1 **Agency Administrator Management Performance Requirements for Fire**  
 2 **Operations**

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
1. Take necessary and prudent actions to ensure firefighter and public safety.	X	X	X
2. Ensures sufficient qualified fire and non-fire personnel are available each year to support fire operations at a level commensurate with the local and national fire situation. Ensures that all training and certification of fire and non-fire personnel is completed as required to support fire operations at the local and national level.	X	X	X
3. Ensure Fire Management Officers (FMOs) are fully qualified as identified in the <i>Interagency Fire Program Management Qualification Standards</i> .	X	X	X
4. Provide a written Delegation of Authority (DOA) on an annual basis to individual(s) responsible for wildland fire management activities to ensure an adequate level of operational authority. Depending on park organizational structure, written delegations may be provided to the Chief Ranger, Natural Resource Specialist, FMO, designated Fire Coordinator, Park Group FMO, or to individuals from neighboring fire management organizations, provided a written agreement or memorandum of understanding is in-place. Where applicable, an Inter-park Agreement that specifies the reciprocal responsibilities of the Superintendent and Park Group FMO will be prepared. This Inter-park Agreement will be accompanied by an annual Delegation of Authority. Both the DOA and Inter-Park Agreement will remain valid until rescinded by either party, updates are needed, or personnel changes necessitate a revision and update. As appropriate, the DOA will specify multi-agency coordination (MAC) group authorities.	X	X	X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
5. Ensure applicable park resource management objectives are included in Fire Management Plan (FMP). Ensure FMP receives an interdisciplinary annual review and is validated and appropriately updated on an annual basis in advance of the fire season. Fire Management Plans do not automatically expire. They are considered valid until superseded by a new or revised approved plan. A comprehensive review of the FMP should be completed every 7 years (RM 18, Chapter 4). Copies of the parks signed annual FMP Review and Update template (RM-18, Chapter 4, Exhibit 2) or packet, will be sent to the Regional FMO and to the FMPC in Boise. (Note the change to a seven year review instead of five year review.)			X
6. Reviews and approves wildfire preparedness and fuels management funding based on an accurate and defensible readiness analysis. Ensure use of fire funds is in compliance with Department and Agency policies.	X	X	X
7. Develop fire management standards and constraints that are in compliance with agency fire policies.		X	X
8. Ensure compliance with the collection, storing, and aggregation of Wildland Fire Program Core geospatial data ( <a href="http://share.nps.gov/firegis">http://share.nps.gov/firegis</a> ).			X
9. Management teams will meet once a year to review fire and aviation policies, roles, responsibilities, and delegations of authority. Specifically address oversight and management controls, critical safety issues and high-risk situations such as team transfers of command, periods of multiple fire activity and Red Flag Warnings.	X	X	X

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PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
10. Review safety policies, procedures, and concerns with field fire and fire aviation personnel. Discussions should include issues that could compromise safety and effectiveness during the upcoming season.			X
11. Ensure timely follow-up actions to program reviews, fire preparedness reviews, fire and fire aviation safety reviews, fire critiques and post-season reviews.	X	X	X
12. Ensure fire and fire aviation preparedness reviews are conducted in all units each year. Parks must complete checklists applicable to their specific program scope and complexity and include appropriate program elements, such as prescribed fire. A summary of the preparedness review findings including standards exceeded or needing improvement will be submitted to the Regional FMO before the fire season.		X	X
13. Ensure an approved burn plan is followed for each prescribed fire project; technical review, <i>Prescribed Fire Go/No-Go Checklist</i> (PMS 486), and <i>Agency Administrator Ignition Authorization</i> (PMS 485) are completed; follow-up monitoring and documentation to ensure management objectives are met.		X	X
14. Meet annually with major cooperators and review interagency agreements to ensure their continued effectiveness and efficiency (may be delegated).		X	X
15. Ensure post fire reviews are conducted on all fires that escape initial attack or are managed as long term incidents. Participate in all reviews that require management by any type of Incident Management Team (Regional Director may delegate).		X	X
16. Provide management oversight by personally visiting wildland and prescribed fires each year.			X

PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
17. Provide incident management objectives, written delegations of authority and Agency Administrator briefings to Incident Management Teams. See Chapter 11, Agency Administrator Responsibilities.			X
18. Monitor wildfire potential and provide oversight during periods of critical fire activity/situations.	X	X	X
19. Ensures that resource advisors are identified, trained, available, and appropriately assigned to wildland fire incidents. Refer to <i>Resource Advisors Guide for Wildland Fire</i> PMS 313, NFES 1831, Jan 2004.			X
20. Convene and participate in annual pre- and post-season fire meetings.	X	X	X
21. Attends the Fire Management Leadership Course (geographic or national) within two years of appointment to Superintendent. Ensures that personnel assigned oversight responsibilities for the fire program have completed the Fire Management Leadership course.		X	X
22. Ensure appropriate investigations are conducted for accidents (as defined in Chapter 18), entrapments, shelter deployments, and related events.	X	X	X
23. For all unplanned human-caused fires where liability can be determined, ensure actions are initiated to recover cost of suppression activities, land rehabilitation, and damages to the resource and improvements.		X	X
24. Ensure the development of Published Decisions within WFDSS with local unit staff specialists for all fires that exceed initial attack or are being managed for multiple objectives, within the objectives and requirements contained in the Park's Fire Management Plan.	X	X	X

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PERFORMANCE REQUIRED	NPS Director	Regional Director	Park Supt
25. Ensure there is adequate direction in fire management plans to identify fire danger awareness with escalating fire potential.			X
26. Ensure compliance with Departmental and agency policy, as well as Regional Office direction for prescribed fire activities and ensure that periodic reviews and inspections of the prescribed fire program are completed.	X	X	X
27. Review prescribed fire plans and recommend or approve the plans depending upon the delegated authority. Ensure that the prescribed fire plan has been reviewed and recommended by a qualified technical reviewer who was not involved in the plan preparation.			X
28. At National Preparedness Level 4 and 5, approve the initiation or continuation of prescribed fire applications based on an assessment of risk, impacts of the proposed actions on area resources and activities and include feedback from the Geographic Area Multi-Agency Coordinating Group.		X	

#### 1 Fire Management Staff Roles

##### 2 National Office

3 The Chief, Division of Fire and Aviation (FAM Chief), NPS-NIFC, is  
4 responsible and accountable for developing policy, program direction and  
5 international coordination. The FAM Chief, along with the Branch Chiefs for  
6 Wildland Fire and Aviation, work with interagency cooperators to coordinate,  
7 reduce duplication, increase efficiencies in wildland fire management and  
8 aviation, and provide feedback to regional offices on performance requirements.

##### 9 Regional Office

10 The Regional Fire Management Officer (RFMO) provides leadership for their  
11 fire and fire aviation management program. The RFMO is responsible and  
12 accountable for providing planning, coordination, training, technical guidance  
13 and oversight to the park fire management programs. The RFMO also represents  
14 the Regional Director on interagency geographic coordination groups and Multi-  
15 Agency Coordination (MAC) Groups. The RFMO provides feedback to units on  
16 performance requirements.

1 **Park**

2 The Fire Management Officer (FMO) is responsible and accountable for  
 3 providing leadership for fire and fire aviation management programs at the local  
 4 level. The FMO determines program requirements to implement land use  
 5 decisions through the Fire Management Plan (FMP) to meet land management  
 6 objectives. The FMO negotiates interagency agreements  
 7 (contracting/agreements officer must review and process agreement) and  
 8 represents the Agency Administrator on local interagency fire and fire aviation  
 9 groups.

10 The Superintendent annually shall provide and update the expectations of  
 11 wildland fire program leaders by means of two instruments. One is a limited  
 12 Delegation of Authority (DOA) that encompasses the scope of duties outlined  
 13 above. The other is an Inter-park Agreement for those cases where a Park Group  
 14 FMO (or designee) handles defined duties on behalf of another NPS unit within  
 15 the defined Park Group.

16 **Fire Management Staff Performance Requirements for Fire Operations**

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
1. Maintain safety first as the foundation for all aspects of fire and fire aviation management.	X	X	X
2. Ensure completion of a job hazard analysis (JHA) for fire and fire aviation activities so mitigation measures are taken to reduce risk.			X
3. Ensure work/rest and length of assignment guidelines are followed during all fire and fire aviation activities. Deviations must be approved and documented.	X	X	X
4. Ensure that only trained and qualified personnel are assigned to fire and fire aviation duties.	X	X	X
5. Develop, implement, evaluate and document fire and fire aviation training programs to meet current and anticipated needs.	X	X	X
6. Establish an effective process to gather, evaluate, and communicate information to managers, supervisors, and employees. Ensure clear and concise communications are maintained at all levels.	X	X	X

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PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
7. Develop and maintain an open line of communication with the public and cooperators.	X	X	X
8. Ensure that the fire and fire aviation management staff understand their role, responsibilities, authority, and accountability.	X	X	X
9. Organize, train, equip, and direct a qualified work force. Establish "red card" certification/qualification process at the local level. Individual Development Plans (IDP) should be developed for all employees, but special emphasis must be on employees that do not meet standards.	X	X	X
10. Ensure fire and fire aviation policies are understood, followed, and coordinated with other agencies as appropriate.	X	X	X
11. Recognize when complexity levels exceed program capabilities. Increase administrative, managerial, and operational resources to meet the need.	X	X	X
12. Initiate, conduct, and participate in fire management related reviews and investigations, including prescribed fires declared wildfires.	X	X	X
13. Provide for and personally participate in periodic site visits to individual incidents and projects.	X	X	X
14. Utilize the incident complexity analysis to ensure the proper level of management is assigned to all incidents.		X	X
15. Review and evaluate performance of the fire management organization and take appropriate actions.	X	X	X
16. Ensure incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X	X

PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
17. Ensure the development of Published Decisions within WFDSS with local unit staff specialists for all fires that exceed initial attack or are being managed for multiple objectives, within the objectives and requirements contained in the Park's Fire Management Plan.		X	X
18. Monitor fire season severity predictions, fire behavior, and fire activity levels. Take actions to ensure safe, efficient, and effective operations.	X	X	X
19. Provide fire personnel with adequate guidance and decision-making authority to ensure timely decisions.		X	X
20. Ensure a written/approved plan based on current land use and/or fire management plans and/or project-level NEPA document exists for each prescribed fire or non-fire treatment. Plans shall be integrated with related vegetation management actions such as invasive species management.			X
21. Ensure effective transfer of command of incident management occurs and oversight is in place.	X	X	X
22. Develop and maintain agreements, annual operating plans, and contracts on an interagency basis to increase effectiveness and efficiencies.	X	X	X
23. Provide the expertise and skills to fully integrate fire and fire aviation management into interdisciplinary planning efforts.	X	X	X
24. Work with cooperators to identify processes and procedures for providing fire safe communities.	X	X	X

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PERFORMANCE REQUIRED	FAM CHIEF	RFMO	FMO
25. Develop, maintain, and annually evaluate the FMP to ensure accuracy and validity by completing a review. Ensure applicable park resource management objectives are included in the Fire Management Plan (FMP).		X	X
26. Ensure budget requests and allocations reflect analyzed anticipated workload.	X	X	X
27. Develop and maintain current operational plans; e.g., dispatch, pre-attack, prevention.	X	X	X
28. Ensure that reports and records are properly completed and maintained.	X	X	X
29. Ensure Wildland Fire Program Core spatial data is collected, stored, and aggregated based on NPS standards ( <a href="http://share.nps.gov/firegis">http://share.nps.gov/firegis</a> ).		X	X
30. Ensure fiscal responsibility and accountability in planning and expenditures.	X	X	X
31. Assess, identify, and implement program actions that effectively reduce unwanted wildland fire ignitions and mitigate risks to life, property, and resources. Utilize safe, effective, and efficient management.		X	X
32. Effectively communicate the role of wildland fire to internal and external agency audiences.	X	X	X
33. Complete trespass actions when unplanned human-caused ignitions occur.		X	X
34. Ensure compliance with National and Regional policy and direction for prescribed fire activities and ensure that periodic reviews and inspections of the prescribed fire program are completed.	X	X	X
35. Ensure all fire management actions and activities are consistent with those contained in the current Fire Management Plan and associated environmental compliance documentation.			X

**1 Fire Management Leadership Board**

2 The Fire Management Leadership Board (FMLB) is established under the  
3 authority of the Chief, Division of Fire and Aviation Management. The purpose  
4 of FMLB is to provide leadership for the National Park Service (NPS) Wildland  
5 Fire Management Program through strategic planning and coordination to  
6 implement a safe and effective fire management program within the NPS. The  
7 FMLB will:

- 8 • Develop and implement a Wildland Fire Management Strategic Plan and  
9 Wildland Fire Policy;
- 10 • Facilitate integrating park, regional and national perspectives in support of  
11 the Wildland Fire Strategic Plan and Wildland Fire Policy;
- 12 • Develop and recommend strategic direction for long-term NPS Wildland  
13 Fire Management Program issues, policies, programs and systems,  
14 including the role of the interagency community, to meet the NPS mission;
- 15 • Develop and recommend budget priorities to the Branch Chief, Wildland  
16 Fire;
- 17 • Develop budget and financial management guidance and business rules for  
18 the NPS Wildland Fire Management Program;
- 19 • Communicate with management and leadership regarding wildland fire  
20 management program issues and needs;
- 21 • Promote/advocate integrating fire programs with other NPS programs; and  
22 • Address recruitment/retention, succession planning and organizational  
23 efficiency.

**24 Requirements for Fire Management Positions**

25 All NPS employees assigned dedicated fire management program  
26 responsibilities at the park, regional or national level shall meet established  
27 interagency and NPS competencies (knowledge, skills, and abilities) and  
28 associated qualifications.

29 All NPS employees assigned to wildland fire management incidents will meet  
30 the training and qualification standards set by the National Wildfire  
31 Coordinating Group.

32 Refer to Chapter 13 of the *Interagency Standards for Fire and Fire Aviation*  
33 *Operations* for specific requirements.

34 All wildland fires will be managed by an individual qualified and certified at the  
35 command level appropriate to the complexity level of the incident.

36 The qualification standards identified in the *Interagency Fire Program*  
37 *Management Qualifications Standards* will be required, in conjunction with  
38 specific agency requirements, when filling vacant fire program positions and as  
39 an aid in developing Individual Development Plans (IDPs) for employees.

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**1 Training****2 Training for Park Superintendents**

3 The following training is required for park superintendents and their designated  
4 actings:

- 5 • Fire Management Leadership (geographic or national)

6 The training should be completed within two years of appointment to a  
7 designated management position to ensure that personnel who have oversight  
8 responsibilities for the fire program have completed the Fire Management  
9 Leadership course.

**10 Training for Fire Management Officers**

11 The following training is required for fire management officers:

- 12 • Fire Program Management (M-581).

**13 NPS Firefighters General Training Requirements**

14 The following training is required for agency permanent, career seasonal and  
15 temporary firefighters:

Required Training	Initial Requirement/ Frequency	Completion Tracking Method	Reference
First Aid/ Cardiopulmonary Resuscitation (CPR)	<ul style="list-style-type: none"> <li>• Upon initial employment.</li> <li>• Every 3 years or per certifying authority</li> </ul>	<ul style="list-style-type: none"> <li>• Instructor-led</li> <li>• Unit Safety Manager</li> </ul>	RM-50B, Section 4
HAZMAT - First Responder Awareness Level	<ul style="list-style-type: none"> <li>• Upon initial employment</li> <li>• Annually</li> <li>• Minimum of one hour online course initially and annually</li> </ul>	<ul style="list-style-type: none"> <li>• Instructor-led</li> <li>• Unit Safety Manager</li> <li>• DOI Learn</li> </ul>	<a href="https://www.osha.gov/Publications/OSHA-2254.pdf">https://www.osha.gov/Publications/OSHA-2254.pdf</a> Pg. 27
Annual Fireline Safety Refresher (RT-130)	<ul style="list-style-type: none"> <li>• No minimum hourly requirement</li> <li>• Annually</li> </ul>	<ul style="list-style-type: none"> <li>• IQCS</li> </ul>	RM-18 Ch. 10
Blood borne Pathogens	<ul style="list-style-type: none"> <li>• Annual for employees at increased risk due to assigned duties (i.e., IHC, helitack, WFM, engine crews)</li> <li>• Locally taught or DOI Learn</li> </ul>	<ul style="list-style-type: none"> <li>• Instructor</li> <li>• DOI Learn</li> </ul>	RM-51 Ch. 5

**1 Structural Fire and Hazardous Materials Response****2 Structural Fire Response Requirements (Including Vehicle, Trash, and  
3 Dumpster Fires)**

4 In order to protect the health and safety of National Park Service personnel, no  
5 employee shall be directed, or dispatched (including self-dispatching) to the  
6 suppression of structural fires, including vehicle fires, unless they are provided  
7 with the required personnel protective equipment, firefighting equipment and  
8 training. All employees must meet or exceed the standards and regulations  
9 identified in Director's Order and Reference Manual #58, Structural Fire.

10 Vehicle, trash, and dumpster fires contain a high level of toxic emissions and  
11 must be treated with the same caution that structural fires are treated.

12 Firefighters must be outfitted with NFPA compliant structural fire personal  
13 protective clothing, including self-contained breathing apparatus. Situations  
14 exist during the incipient phase of a vehicle fire where the fire can be quickly  
15 suppressed with the discharge of a handheld fire extinguisher. Discharging a  
16 handheld fire extinguisher during this phase of the fire will normally be  
17 considered an appropriate action for any employee who has received annual fire  
18 extinguisher training. If the fire has gone beyond the incipient stage, employees  
19 are to protect the scene and request the appropriate suppression resources.

**20 Delegation of Authority****21 Delegation for Regional Fire Management Officers**

22 In order to effectively perform their duties, the RFMO must have certain  
23 authorities delegated from the Regional Director. The Delegation of Authority  
24 should include the following roles and responsibilities:

- 25 • Serves as the Regional Director's authorized representative on Geographic  
26 Area Coordination Groups, including MAC groups.
- 27 • Coordinate and establish priorities on uncommitted fire suppression  
28 resources during periods of shortages.
- 29 • Coordinate wildland fire planning, response, and evaluation region-wide.
- 30 • Relocate agency pre-suppression/suppression resources within the region  
31 based on fire potential/activity.
- 32 • Correct unsafe fire suppression activities.
- 33 • Direct accelerated, aggressive initial attack when appropriate.
- 34 • Develop and maintain agreements to provide for the management, fiscal and  
35 operational functions of combined agency operated facilities.
- 36 • Suspend prescribed fire activities when warranted.
- 37 • Give authorization to hire Emergency Firefighters in accordance with the  
38 DOI Pay Plan for Emergency Workers.
- 39 • Approve emergency fire severity funding expenditures not to exceed the  
40 Regional annual authority.

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**1 NPS Duty Officer (DO)**

2 All Fire Management Officers are responsible to provide DO coverage during  
3 any period of predicted incident activities. DO's responsibilities may be  
4 performed by any individual with a signed Delegation of Authority from the  
5 local Agency Administrator. The Duty Officer may be in a location remote from  
6 the park, but will be familiar with local incident response procedures,  
7 agreements and resources. The required duties for all DOs are:

- 8 • Monitor unit incident activities for compliance with NPS safety policies.
- 9 • Coordinate and set priorities for unit suppression actions and resource  
10 allocation.
- 11 • Keep Agency Administrators, suppression resources and Information  
12 Officers informed of the current and expected situation.
- 13 • Plan for and implement actions required for future needs.
- 14 • Document all decisions and actions.

15 DOs will provide operational oversight of these requirements as well as any  
16 specific duties assigned by fire managers through the fire operating plan. DOs  
17 will not fill any ICS incident command functions connected to any incident. In  
18 the event that the DO is required to accept an incident assignment, the FMO will  
19 ensure that another authorized DO is in place prior to the departure of the  
20 outgoing DO.

**21 Engine Operating Standards**

22 Current direction on the NPS Fire and Aviation vehicle program is at the NPS  
23 Fire Operations Sharepoint site  
24 <http://npsfamshare/wildlandfire/operations/fleetandfacilities/default.aspx>.

**25 Vehicle Color and Marking**

26 Vehicles dedicated to wildland fire activities shall be white in color and have a  
27 single four-inch wide red reflective stripe placed according to NFPA 1906  
28 (NFPA 1906 8.8.3, 2006 edition). The word "FIRE" red with white background  
29 color will be clearly visible on all four sides of the vehicle. The NPS Arrowhead  
30 will be placed on the front doors. The size and placement of the Arrowhead will  
31 be as specified in RM-9. An identifier will be placed on the vehicle according to  
32 local zone or GACC directions. Roof numbers will be placed according to local  
33 zone procedures.

**34 Engine Module Standards**

35 If no ENGB is assigned, then the apparatus is designated as a Patrol or  
36 Prevention vehicle, not as an Engine.

Type	Minimum Personnel	ENGB	FFT2 (Minimum Qualification)
3	3	1	2
4	3	1	2
5	2	1	1
6	2	1	1
7	2*	**	1

\* At least one of which is FFT1 and ICT5 qualified

\*\* An ENGB is required for mobilization

- 1 • Engines with four or more personnel assigned will always have a qualified
- 2 engine operator (ENOP) in addition to an ENGB.
- 3 • Additional personnel may be requested by the ordering unit and/or added by
- 4 the filling unit for mobilization.

#### 5 **Lights and Siren Response**

6 Responding to wildland fire incidents normally does not warrant the use of  
7 emergency lights and siren on public roads by calling for or blocking the right-  
8 of-way from other traffic in order to safely and effectively perform the NPS  
9 mission. However, there may be rare and extenuating circumstances when  
10 limited use of emergency lights and siren is appropriate and necessary due to an  
11 immediate threat to life.

12 Those units that determine an emergency lights-and-siren response on public  
13 roads is necessary to meet mission requirements must develop an operating plan  
14 that ensures the following:

- 15 1. All vehicles (command, engines, etc.) will be properly marked, equipped,  
16 and operated in accordance with state statutes, codes, permits and NPS  
17 requirements.
- 18 2. Drivers will complete training in the proper use of lights and siren response  
19 in accordance with National Fire Protection Association (NFPA)  
20 1451 Standard for a Fire Service Operations Training Program and 1002  
21 Standard for Fire Apparatus Operator/Driver Professional Qualifications, as  
22 well as any state requirements.
- 23 3. Instructors of lights and siren training must have successfully completed  
24 lights and siren training as part of a federal engine academy, and  
25 Emergency Vehicle Operators Course (EVOC) and a facilitative instructor  
26 course.
- 27 4. Drivers responding with emergency lights and sirens will be minimally  
28 qualified as engine operator.
- 29 5. Lights and sirens will meet NFPA and state code requirements.
- 30 6. Posted speed limits will be followed at all times, regardless of response  
31 type.

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- 1 7. Drivers will stop at all controlled intersections (sign, light, traffic officer)
- 2 before proceeding; drivers will stop or reduce speed as circumstances
- 3 dictate prior to proceeding through any uncontrolled intersections.
- 4 8. Traffic light changing mechanisms (e.g., Opticons) will only be used under
- 5 formal written agreement with state and local governments. They will be
- 6 used only when they are necessary to create safe right-of-way through urban
- 7 high-traffic areas. All pertinent state and local statutes and procedures will
- 8 be adhered to.

#### 9 **Vehicle Maintenance, Repairs and Replacement**

- 10 Daily preventative maintenance checks, regular servicing, and prompt repairs,
- 11 and lifecycle replacement are critical to providing mission readiness,
- 12 performance, and safe operation.

#### 13 **Annual Safety Inspections, Scheduled Maintenance, and Daily Inspections**

- 14 It is required to complete and document annual safety inspections, regularly
- 15 scheduled preventative maintenance and daily (or pre-trip) inspections for all
- 16 NPS wildland fire vehicles. Annual safety inspections must be documented on
- 17 Form 1520-35. Regularly scheduled preventative maintenance, unscheduled
- 18 maintenance and repairs for interior owned (I-plate) vehicles is recorded in
- 19 FBMS. Daily inspections must be recorded in the FEMPR (Fire Engine
- 20 Maintenance Procedure and Record).

- 21 The cost of all vehicle repairs and maintenance is the responsibility of the
- 22 individual parks unless the damage is directly attributable to operations on a
- 23 wildfire. In that case, with approval from the IC, the damages may be paid for
- 24 under the fire's suppression account.

- 25 Wildland fire vehicles that are not operationally sound or have safety
- 26 deficiencies must not be put into service. In addition, vehicles that suffer from
- 27 mechanical or safety issues while enroute or on assignment must be taken out of
- 28 service at the earliest opportunity in which it is safe to do so and must not be put
- 29 back into service until corrective action can be completed.

#### 30 **Fixed Ownership Rates (FORs)**

- 31 FORs are fees that are paid into the WCF annually for each vehicle in the
- 32 program. These fees continue to accumulate over the life of a vehicle and are
- 33 used to replace the vehicle at the end of its life cycle. The FOR is adjusted
- 34 annually by the WCF manager to reflect changes in input parameters.

#### 35 **Equipment Bulletins and Equipment Alerts**

- 36 The NPS mirrors the Bureau of Land Management (BLM) two-level Equipment
- 37 Bulletin (EB) and Equipment Alert (EA) System. The purpose of the system is
- 38 to share accurate and timely information regarding potential equipment
- 39 problems and/or needed repairs. The EB is primarily intended to inform the

- 1 equipment users of recommendations for repairs, potential hazards, or general  
 2 information related to the overall maintenance, awareness, and safe operation of  
 3 fire equipment. The EA is time sensitive and addresses potentially serious  
 4 hazards or risks. The alert includes a specific action that the user must act upon.
- 5 Unexpected issues involving wildland fire vehicles which do not fall under other  
 6 types of wildland fire reviews and investigations and/or other applicable federal,  
 7 state or specific agency requirements must be reported. If an unexpected vehicle  
 8 issue warrants an EB or EA it is issued by the National Fire Equipment Program  
 9 Manager through the Operations Advisory Team and the Capital Equipment  
 10 Committee. Members of these groups must ensure the information reaches all  
 11 levels of the organization.

#### 12 **NPS Firefighter Target Physical Fitness Standards**

- 13 These are voluntary targets. They are not mandatory. These targets are  
 14 established to provide NPS firefighters a common standard against which to  
 15 gauge their physical fitness level. NPS firefighters are encouraged to meet or  
 16 exceed these standards.

	Age 18-29	Age 30-39	Age 40-49	Age 50 and Up
1.5 Mile Run	11:58	12:25	13:05	14:43
Sit-Ups (1 minute)	40	36	31	26
Push-Ups (1 minute)	33	27	21	15

- 17 The guide below may be used to adjust the 1.5 mile run times to compensate for  
 18 altitude differences:

Altitude in feet	1.5 mile run time adjustment
0 - 5,000	No adjustment
5,000 - 6,000	Add 30 seconds
6,000 - 7,000	Add 40 seconds
7,000 - 8,000	Add 50 seconds

#### 19 **National Fire Operations Fitness Challenge**

- 20 The national fire operations fitness challenge encourages and recognizes  
 21 achievement in physical fitness by NPS firefighters. The fitness challenge  
 22 provides a common system by which NPS firefighters can measure current  
 23 fitness, establish fitness goals, and track fitness improvement. The fitness  
 24 challenge is voluntary, but NPS firefighters are encouraged to participate. The  
 25 fitness challenge tests participants in four basic exercises - push-ups, pull-ups,  
 26 sit-ups and a timed run of 1.5 miles. Test results are compiled into a final overall  
 27 score. Unit and Regional offices are encouraged to support and recognize

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- 1 achievement in firefighter fitness. Specific information on the fitness challenge  
2 is located at [www.blm.gov/nifc/st/en/prog/fire/fireops/fitness\\_challenge.html](http://www.blm.gov/nifc/st/en/prog/fire/fireops/fitness_challenge.html).

### 3 **Wildland Fire Uniform Standards**

- 4 The Service-wide Uniform Program Guideline (DO-43) sets forth the service-  
5 wide policies and associated legal mandates for wearing the NPS uniform and  
6 for authorizing allowances to employees.

7 The guideline states that superintendents administer the uniform program within  
8 their areas and are responsible for developing and communicating local uniform  
9 and appearance standards in accordance with DO-43, determining who will wear  
10 the uniform and what uniform will be worn and enforcing uniform and  
11 appearance standards. Three options exist for uniforms for wildland fire  
12 personnel:

- 13 • Within the context of the uniform standards, if the conventional NPS  
14 uniform is identified at the local level as required for specified fire  
15 management staff, fire program management funds may be used to support  
16 uniform purchases in accordance with allowance limits identified in DO-43.
- 17 • While Nomex outerwear (i.e., shirts, trousers, brush-coats) routinely issued  
18 as personal protective equipment has become recognized as the uniform of  
19 the wildland firefighter as a matter of necessity, these apparel also have  
20 justifiable utility as a uniform standard at the park level for certain fire  
21 and/or ONPS base-funded wildland fire staff.
- 22 • When the conventional NPS uniform or the full Nomex outerwear is not  
23 appropriate or justified, local management with park superintendent  
24 approval may establish a predetermined dress code for fire staff. The goals  
25 of the NPS uniform program can appropriately be applied (with common  
26 sense) to this departure from the norm.
- 27 • The DOI Boot Policy is referenced in Chapter 7.
- 28 • The fire management officer is responsible for establishing a reasonable  
29 allotment schedule for new or returning employees, commensurate with  
30 supplies provided in previous seasons. A suggested per person issuance is  
31 three to four tee shirts, one ball cap, and one sweatshirt (where appropriate).  
32 \$100 would normally be adequate to cover costs of this issuance.

33 Where appropriate and justified, fire funds may be applied to the purchase of  
34 100 percent cotton tee shirts, sweatshirts, and ball caps, with appropriate logo  
35 and color scheme, to augment the Nomex outerwear worn in conjunction with  
36 project or wildland fire management incidents. Nomex outerwear will usually be  
37 returned to the park's fire cache based on the tour of duty (end of season,  
38 transfer to another park, etc.).

39 Just as with uniform allowance discussed in DO-43, the intent of fire-funded  
40 purchases is to defray the cost of the appropriate apparel, not necessarily to  
41 cover the cost of all items. This will not only be factored into the quantities

- 1 deemed necessary for the individual, but would also preclude fire-funded
- 2 purchases of fleece jackets, rain gear and other personal items generally
- 3 considered the responsibility of those employees not covered by the NPS
- 4 uniform program. Exceptions to this should be well-justified and documented.

#### 5 **Fire Management Credentials**

- 6 The NPS Fire and Aviation Management Credential Program is currently
- 7 suspended and undergoing a review.

#### 8 **NPS Use of WFDSS**

- 9 1. The internet-based WFDSS will be the primary decision support
- 10 documentation platform for all NPS wildfires.
- 11 2. Minimum required documentation/data field entry for each fire will follow
- 12 system standards as described in Appendix N of the *Interagency Standards*
- 13 *for Fire and Fire Aviation Operations*.
- 14 3. Publishing decisions for initial attack fires in WFDSS is optional. All fires
- 15 which go into extended attack or are being managed for multiple objectives
- 16 will have a published decision in WFDSS.
- 17 4. NPS Superintendents or other designated approving officials must meet fire
- 18 training requirements as specified in this chapter.
- 19 5. NPS Superintendents or other designated approving officials will maintain
- 20 WFDSS user profiles (as appropriate), allowing them to approve wildfire
- 21 decisions in WFDSS.
- 22 6. Wildfire decisions, documented in WFDSS and approved by NPS Agency
- 23 Administrators, constitute awareness of estimated fire costs for the duration
- 24 of the fire. This cost, shown in the WFDSS Cost tab, will be developed
- 25 from sources such as I-Suite, ICS-209 summaries, finance units within
- 26 incident management teams, estimation spreadsheets, or other sources.
- 27 7. All incidents in WFDSS will accurately document the containment date,
- 28 control, and out date by the end of the calendar year.
- 29 8. To ensure awareness of suppression expenditures at all levels, Park
- 30 Superintendents will provide written notification to Regional Director or the
- 31 Chief, Division of Fire and Aviation as cost thresholds (Chapter 11) are
- 32 approached or reached.
- 33 9. As approvers of WFDSS decisions, NPS Superintendents or other
- 34 designated approving officials will ensure that periodic assessments are
- 35 completed until the fire is declared out.
- 36 10. Those fires burning on to NPS lands from another federal fire management
- 37 agency (Forest Service, Bureau of Land Management, Bureau of Indian
- 38 Affairs, or US Fish and Wildlife Service) should be entered by the
- 39 originating agency, not the NPS.
- 40 11. Wildfires burning on to NPS lands from state and local lands will be entered
- 41 into WFDSS by the receiving NPS unit, if they have not been entered by
- 42 another federal agency or State, with the true Point of Origin and Discovery
- 43 Date being entered. When these incidents are created in WFDSS, the

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- 1 Responsible Unit Name at Point of Origin will not be the NPS. However,  
2 the NPS will be selected as at least one of the Responsible Agency(s) in  
3 addition to other.
- 4 12. Wildfires must be entered individually, not as complexes, into the WFDSS.  
5 This is independent of the operational or financial management of a group  
6 of fires as a complex, and regardless of them having a common course of  
7 action.
- 8 13. Applicable fire-related resource management objectives and management  
9 requirements from the NPS Management Policies, as well as from a park's  
10 General Management Plan, Resource Management/Stewardship Plan, and  
11 Fire Management Plan (FMP), will be input into the WFDSS. This  
12 information will reflect the management objectives for wildland fire as  
13 stated in the park's FMP and supporting NEPA documents.
- 14 14. Every wildland fire decision will consider the development of protection  
15 objectives which also provide for safety of firefighters and the public and  
16 minimize the loss of, and damage to, property, cultural and natural  
17 resources.
- 18 15. WFDSS does not replace ICS-209 and Situation Reporting Systems. Parks  
19 will continue to follow National, Geographic Area Coordination Center  
20 (GACC), and/or local guidance for fire reporting within these systems.
- 21 16. Refer to Chapter 11 of the *Interagency Standards for Fire and Fire Aviation*  
22 *Operations* for further guidance.
- 23 **National Park Service Specific Qualifications and Qualifications Exceptions**
- 24 Prescribed Fire Crewmember (RXCM): The National Park Service does not  
25 recognize the RXCM position. NPS personnel functioning on prescribed fires  
26 must meet qualification standards found in the NWCG PMS 310-1, *NIMS*  
27 *Wildland Fire Qualification System Guide*.

**Chapter 4**  
**U.S. Fish and Wildlife Service Program Organization and Responsibilities**

**4 Introduction**

This document states, references, or supplements policy for the U.S. Fish and Wildlife Service Wildland Fire Management Program. The standards provided in this document are based on current U.S. Department of the Interior and Bureau policy, and are intended to provide fire program guidance. If there is a discrepancy between guidance found in this document and the Service Manual, information contained within this document will be considered authoritative as updates occur on a more frequent cycle than the Service Manual. The intent is to ensure safe, consistent, efficient, and effective fire and aviation operations. This document will be reviewed and updated annually.

**14 Agency Administrator Roles****15 Director**

The Director of the Fish and Wildlife Service has overall responsibility for the Service's Wildland Fire Management Program. The Director will ensure regional fire management activities are formally evaluated.

**19 Chief, National Wildlife Refuge System**

The National Wildlife Refuge System under the Chief provides leadership for the Wildland Fire Management Program. The National Wildlife Refuge System also formally evaluates all regional fire activities as needed. The Assistant Director of the National Wildlife Refuge System has delegated the authority to approve the Service *Fire Management Handbook* and other fire related handbooks as needed to provide guidance to the Chief, Branch of Fire Management.

**27 Regional Director**

The Regional Director is responsible to the Director for fire management programs and activities within their region. The Regional Director will meet the required elements outlined in the *Management Performance Requirements for Fire Operations* and ensure training is completed to support delegations to line managers and principal acting's. The Regional Director ensures that Refuge Managers/Project Leaders, and or Field Supervisors are qualified to approve prescribed fire plans. Any prescribed fire that is converted to a wildfire is issued a Notice of Violation for air quality, or damages values off of Service lands, must be reviewed. The appropriate level and scope of the review will be determined by agency policy. The final review results shall be provided to the Regional Director within 45 days of the incident out date.

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1 **Regional Chief and Refuge Supervisors**

2 Regional Chiefs and Refuge Supervisors are delegated specific leadership  
3 responsibilities by the Regional Director. They provide oversight and direction,  
4 in coordination with, the Wildland Fire Management Program for the National  
5 Wildlife Refuge System. These responsibilities occur through established lines  
6 of authority as assigned by the Regional Director.

7 **Project Leader/Refuge Manager**

8 The Project Leader is responsible for the safe and efficient implementation of  
9 fire management activities within their unit, including cooperative activities with  
10 other agencies or landowners, in accordance with delegations of authorities. The  
11 Project Leader, or principal acting, will meet required elements outlined in the  
12 *Management Performance Requirements for Fire Operations* table below.

- 13 • If an Agency Administrator is absent during an incident, the Refuge  
14 Supervisor and RFMC will make an assessment of the Acting Agency  
15 Administrator's capabilities and provide appropriate additional support. The  
16 Refuge Supervisor and RFMC will provide additional fire management  
17 support for the affected refuge as needed.

18 **Management Performance Requirements for Fire Operations**

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief/ Refuge Supervisor	Project Leader/ Refuge Manager
<i>Policy</i>				
1. Ensure any standards developed are compliant with agency wildland fire policies.	X	X	X	X
2. Ensure use of fire funds is in compliance with department and agency policies.	X	X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief/ Refuge Supervisor	Project Leader/ Refuge Manager
3. Attends the <i>Fire Management Leadership</i> course (geographic or national) within two years of appointment to Project Leader, unless there have been no wildland fires recorded in the last 10 years within the complex. Ensures that personnel assigned oversight responsibilities for the fire program have completed the <i>Fire Management Leadership</i> course.	X	X	X	X
4. Review critical operations and safety policies and procedures, including Interagency Fire Program Management Qualifications Guide and <i>Interagency Standards for Fire and Fire Aviation Operations</i> "Red Book" with fire and fire aviation personnel.		X	X	X
<b><i>Program Management</i></b>				
5. Provide a written Delegation of Authority to Zone FMOs giving an adequate level of operational authority. For zoned/area units, ensure all appropriate Agency Administrators have signed the delegation. When applicable, an Inter-refuge Agreement specifying reciprocal responsibilities of the Project Leader/Refuge Manager and the Area/Zone FMO.	X	X	X	X

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PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief/ Refuge Supervisor	Project Leader/ Refuge Manager
6. Ensure all fire management activities are supported by a current FMP with documented annual updates and are integrated with an approved Comprehensive Conservation Plan.	X	X	X	X
7. Ensure units have a current safety plan, an active safety committee, and safety program that integrates the fire program.			X	X
8. Ensure investigations and reviews are conducted for incidents, accidents, escaped prescribed fires, and near misses as described in Chapter 18.	X	X	X	X
9. Annually update and review the FWS Line of Duty Death Response Handbook and the Agency Administrator's Guide to Critical Incident Management.		X	X	X
10. Ensure timely follow-up to fire management program reviews.			X	X
11. Ensure master agreements with cooperators are valid and in compliance with agency policies, and Annual Operating Plans are current.		X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief/ Refuge Supervisor	Project Leader/ Refuge Manager
12. Ensure trespass actions are initiated and documented to recover cost of suppression activities, land rehabilitation, and damages to resources and improvements for all human-caused fires where liability can be determined, as per <i>Service Fire Management Handbook</i> .		X	X	X
13. Ensure Wildland Fire Decision Support System (WFDSS) is used to publish timely decisions and to provide decision support documentation for all fires that escape initial attack or initial response.		X	X	X
14. Convene and participate in annual fire meetings.			X	X
15. Participate as part of in-briefings and post fire closeouts on Type 1 and Type 2 fires.				X
16. Provide a written Delegation of Authority, WFDSS analysis, Agency Administrator Briefings to Incident Management Teams.				X
17. Ensure fire and fire aviation preparedness reviews are conducted annually in all unit offices.		X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief/ Refuge Supervisor	Project Leader/ Refuge Manager
18. Ensure resource advisors are identified, trained, and available for incident assignment. Refer to the <i>Resource Advisors Guide for Wildland Fire</i> (NWCG PMS 313, NFES 1813).				X
19. Personally visit at least one wildland fire each year as available.				X
20. Ensure appropriate management of Social/Political/Media resources and relationships affecting wildland fire.		X	X	X
21. Ensure appropriate risk management, administration, management and oversight of wildland incidents. Ensure Incident Business Analysts, Strategic Operational Planners, Resource Advisors, and Agency Representative positions are utilized as needed.				X
22. Provide oversight to Emergency Stabilization (ES) and Burned Area Rehabilitation (BAR) processes and procedures.				X
<b>Training/Certification</b>				
23. Ensure only trained and certified fire and non-fire personnel are available to support fire operations at the local, geographic, and national levels.	X	X	X	X

PERFORMANCE REQUIRED	FWS Director	Regional Director	Regional Chief/ Refuge Supervisor	Project Leader/ Refuge Manager
24. Ensure personnel delegated fire program responsibilities have completed required training.	X		X	X
<b><i>Prescribed Fire/Fuels Management</i></b>				
25. Ensure compliance with National and Regional policies for prescribed fire activities. Conduct periodic reviews of the prescribed fire program.		X	X	X
26. Ensure all wildfires resulting from prescribed fire actions are reported to Regional Director within 24 hours of the wildfire declaration.			X	X
27. In the event of a declared wildfire from an escaped prescribed fire, conduct and submit Declared Wildfire Review to National Office within 45 days of wildfire out date.		X	X	X
28. Ensure Prescribed Fire Plans have been reviewed and recommended by a qualified technical reviewer other than the plan author.				X
29. Review and approve the Agency Administrator Ignition Authorization.				X

1 **Fire Management Staff Roles**2 **National Office**3 ***Fire Director***

- 4 The Fire Director is the Chief of the Fire Management Branch in the National  
 5 Wildlife Refuge System, and is the Service representative at the National

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1 Interagency Fire Center (NIFC). The Fire Director, through *Service Manual 621*  
2 *FW 1*, is delegated authority by the Director to represent the Service on the  
3 National Multi-Agency Coordinating Group (NMAC Group). The Fire Director  
4 is responsible for implementing the decisions of the NMAC as they affect U.S.  
5 Fish and Wildlife Service areas. The decisions of the NMAC include the  
6 prioritizing of incidents nationally and the allocation or reallocation of  
7 firefighting resources to meet national priorities.

8 The Fire Management Branch is responsible for providing technical direction  
9 and coordination of fire management planning, policy development, and  
10 procedures Service wide.

#### 11 **Regional Office**

##### 12 ***Regional Fire Management Coordinator (RFMC)***

13 The Regional Fire Management Coordinator provides leadership, direction,  
14 coordination, training, planning, evaluation, and technical guidance for the  
15 region and is available to provide assistance for intra-agency and interagency  
16 wildland fire management needs. The RFMC will meet qualification  
17 requirements established by IFPM for the position. The RFMC, through written  
18 delegation by the Regional Director, is delegated authority to represent the  
19 region on the Geographic Multi-Agency Coordinating Group (GMAC). The  
20 RFMC is responsible for implementing the decisions of the MAC Group as they  
21 affect U.S. Fish and Wildlife Service areas. The decisions of the GMAC include  
22 the prioritizing of incidents, Interagency Master/statewide agreements and the  
23 allocation or reallocation of firefighting resources to meet wildland fire  
24 management priorities.

#### 25 **Refuge**

##### 26 ***Zone Fire Management Officer (ZFMO)***

27 The ZFMO is responsible and accountable for providing leadership for the fire  
28 management program. The ZFMO determines program requirements to  
29 implement land use decisions through the Fire Management Plans (FMP) to  
30 meet land management objectives. The ZFMO negotiates interagency  
31 agreements and as delegated, represents the Agency Administrator on local  
32 interagency fire and fire aviation groups. The ZFMO is responsible for  
33 coordinating with Agency Administrators to annually review and update (as  
34 required) their respective Fire Management Plans to comply with agency policy.

## 1 Fire Management Staff Performance Requirements for Fire Operations

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone FMO
<b>Policy</b>			
1. Establishes and manages a safe, effective, and efficient fire program.	X	X	X
2. Ensures that Fire Management Plans (FMPs) reflect the agency's commitment to firefighter and public safety, while utilizing the full range of fire management activities available for ecosystem sustainability.		X	X
3. Provides the expertise and skills to fully integrate fire and fire aviation management into interdisciplinary planning efforts.	X	X	X
4. Ensures compliance with work/rest guidelines during all fire and fire aviation activities.	X	X	X
5. Ensures fire and fire aviation policies are understood, implemented, and coordinated with other agencies as appropriate.	X	X	X
<b>Program Management</b>			
6. Ensures completion of a Job Hazard Analysis (JHA)/Risk Assessment for fire and fire aviation activities to mitigate risk.		X	X
7. Develop, negotiate, and implement cost share, Service First, and reimbursable protection agreements with cooperators.	X	X	X
8. Ensures that the fire and fire aviation management employees understand their role, responsibilities, authority, and accountability.	X	X	X
9. Monitors fire suppression activities to recognize when complexity levels exceed current management capabilities. Increases managerial and operational resources to meet the need.	X	X	X
10. Ensures that agreements with cooperators and operational plans (e.g., Annual Operating Plans, dispatch, preparedness, prevention) are valid and in compliance with agency policy.	X	X	X
11. Ensures use of fire funds is in compliance with department and agency policies.	X	X	X

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PERFORMANCE REQUIRED	Fire Director	RFMC	Zone FMO
12. Ensures that fire severity funding is requested, used, and documented in accordance with agency standards.	X	X	X
13. Ensures a process is established to communicate fire information to public, media, and cooperators.	X	X	X
14. Convenes and participates in annual fire meetings. Specifically address management controls and critical safety issues.	X	X	X
15. Oversees pre-season preparedness review of fire and fire aviation program.	X	X	X
16. Initiates, conducts, and/or participates in fire program management reviews and investigations.	X	X	X
17. Personally participates in periodic site visits to individual incidents and projects.		X	X
18. Ensures that transfer of command occurs as per <i>Interagency Standards for Fire and Fire Aviation Operations</i> , Appendix G on incidents.		X	X
19. Ensure the proper level of management complexity is assigned to all incidents.		X	X
20. Ensures that incoming personnel and crews are briefed prior to fire and fire aviation assignments.		X	X
21. Ensures a WFDSS analysis is completed, updated, approved, and published as necessary.		X	X
22. Works with cooperators, groups, and individuals to develop and implement processes and procedures for providing fire safe communities within the wildland urban interface.	X	X	X
23. Ensures unit is capable of wildfire cause determination.	X	X	X

PERFORMANCE REQUIRED	Fire Director	RFMC	Zone FMO
24. Annually updates and reviews the FWS <i>Line of Duty Death Response Handbook</i> and the <i>Agency Administrator's Guide to Critical Incident Management</i> .	X	X	X
25. Ensures that fire season severity predictions, weather forecasts, fire behavior predictors, and fire activity levels are monitored and communicated daily to all employees (hard copy, web page, email, radio, or fax).	X	X	X
26. Uses current National, Geographic, and Local Mobilization Guides and ensures standards are followed.	X	X	X
27. Ensures that reports and records are properly maintained according to FWS policies.		X	X
28. Ensures all job related accidents/incidents resulting in, or having the potential to cause fatalities, injuries, illnesses, property or environmental damage are reported and/or investigated. All such reports are electronically submitted through the Safety Management Information System (SMIS), SAFENET or SAFECOM as appropriate.		X	X
29. Ensure unit has a current safety plan, an active safety committee, and safety program that integrates the fire program.		X	X
30. Ensures that current emergency medical response plan is in place and accessible.		X	X
<b>Planning</b>			
31. Develops and/or updates fire management plans and associated operational plans for approval by project leaders and regional fire and refuge staff (as determined by the region). Annually review FMPs per Service policy.			X
32. Responsible for the coordination of RAWs maintenance, sensor calibration, and oversight of daily inputs.			X



PERFORMANCE REQUIRED	Fire Director	RFMC	Zone FMO
<i>Training</i>			
33. Ensures IQCS accounts are established and training records maintained for Agency Administrators.		X	
34. Organizes trains, equips, and directs a qualified work force. Ensures that only trained and qualified personnel are assigned to fire and fire aviation duties. Establishes and implements performance review process(es).		X	X
<i>Prescribed Fire and Fuels</i>			
35. Ensures compliance with Service and Regional policy for prescribed fire activities. Provides periodic reviews of the prescribed fire program.	X	X	X
36. Reports all wildfires resulting from prescribed fires to the Regional Fire Management Coordinator within 12 hours of the wildfire declaration.			X

#### 1 National Fire Leadership Team

- 2 The National Fire Leadership Team (NFLT) is established under the guidance  
3 and support of the NWRS Leadership Team. The team is established to provide  
4 regional input on issues of National importance, to advise the Chief, Fire  
5 Management Branch (FMB), and provide leadership, coordination, and guidance  
6 in the development and implementation of a safe and effective fire management  
7 program within the Service. The team serves as a national clearing house,  
8 provides discussion of wildland fire management issues, and recommends  
9 actions to improve coordination and integration of regional fire management  
10 activities into national direction. The team will be responsible for the following:
- 11 • Provide leadership, coordination, and guidance for the Service's fire  
12 management program.
  - 13 • Identify potential fire management issues, and recommend strategies that  
14 will enhance the Service's ability to safely and effectively manage fire on  
15 Service lands.
  - 16 • Develop and recommend common guidance and business rules as needed to  
17 manage fire management activities while recognizing individual regional  
18 needs.
  - 19 • Provide a forum for the exchange of ideas, best management practices, and  
20 lessons learned relating to Service fire management activities.

- 1 • Provide a forum to discuss budget methodology applications that are
- 2 consistent with appropriation language authority as well as providing for the
- 3 collaboration and coordination within FWS and with our interagency
- 4 partners.
- 5 • Form task groups, working teams, or other collections of subject matter
- 6 experts as needed to deal with specific tasks or long-term issues. These
- 7 groups or teams will each have a Leader who usually works in the subject
- 8 matter area with members assigned who may have the subject area as a
- 9 collateral duty. They will have representation from across the Service, and
- 10 will provide guidance or operational recommendations to the NFLT.

#### 11 **Delegation of Authority**

##### 12 **Regional Fire Management Coordinator**

13 In order to effectively perform their duties, a RFMC must have certain  
14 authorities delegated from the Regional Director. This delegation is normally  
15 placed in the regional office supplement to agency manuals. This Delegation of  
16 Authority should include:

- 17 • Serve as the Regional Director's authorized representative on geographic
- 18 area coordination groups, including MAC groups.
- 19 • Coordinate and establish priorities on uncommitted fire suppression
- 20 resources during periods of shortages.
- 21 • Coordinate logistics and suppression operations region-wide.
- 22 • Relocate agency wildland fire resources within the region based on relative
- 23 fire potential/activity.
- 24 • Correct unsafe wildland fire activities.
- 25 • Enter into agreements to provide for the management, fiscal, and
- 26 operational functions of combined agency operated facilities.
- 27 • Suspend prescribed fire activities when warranted.
- 28 • Give authorization to hire Emergency Firefighters in accordance with the
- 29 DOI Pay Plan for Emergency Workers.
- 30 • Approve short-term fire severity funding expenditures not to exceed the
- 31 region's annual authority.

##### 32 **Zone Fire Management Officer (ZFMO)**

33 In order to effectively perform their duties, the ZFMO may receive a Delegation  
34 of Authority (DOA) outlining the operational and administrative fire  
35 management duties. All Unit Agency Administrators within a Zone should  
36 consider signing a single Zone Fire Management delegation. A sample  
37 "Delegation of Authority" can be found on the FWS Fire Operations Policy and  
38 Guidance SharePoint site.

**1 Inter-refuge Agreements**

2 Inter-Refuge Agreements may be used when FMOs provide fire management  
3 oversight to multiple refuges. This is in addition to the Delegation of Authority  
4 from the Project Leaders/Refuge Managers to the FMO, and further defines the  
5 roles and expectations between the FMO and Refuges. An example can be found  
6 on the FWS Fire Operations Policy and Guidance SharePoint site.

**7 Fire Duty Officer**

8 Fire Management Officers are responsible to provide Fire Duty Officer (FDO)  
9 coverage during periods of predicted incident activities. FDO responsibilities  
10 may be performed by any individual delegated the authority, either written or  
11 verbal, from the FMO. The duties for FDOs include:

- 12 • Monitor unit incident activities for compliance with FWS safety policies.
- 13 • Coordinate and set priorities for unit preparedness activities, incident  
14 response and resource allocation.
- 15 • Keep Agency Administrators and resources informed of the current and  
16 expected situation.
- 17 • Plan for and implement actions required for future needs.
- 18 • Document decisions and actions.
- 19 • It is recommended FDOs not fill ICS functions.

**20 Fire Severity Funding**

21 Service specific fire severity funding guidance can be found in Chapter 10 of the  
22 Service Fire Management Handbook, and the Fire Business Handbook, Severity  
23 Subactivity.

**24 Fire Reporting**

25 Field units will report wildland fire occurrence and fire status to their local  
26 dispatch office and Regional Office.

**27 Individual Fire Report**

28 An Individual Fire Report must be completed in the Fire Management  
29 Information System (FMIS) for the following types of fires within 15 days after  
30 the fire is declared out:

- 31 • All wildland fires on Service lands;
- 32 • Support actions;
- 33 • Fires suppressed on other lands under an agreement;
- 34 • All false alarms; and
- 35 • Natural outs (by natural out definition).

1 Detailed information about a support action is only required from an initial entry  
2 into FMIS to establish a work breakdown structure (WBS). Once the WBS has  
3 been established, users are not required to establish additional fire reporting  
4 information for the same fire.

5 Reports are required regardless of who takes action, e.g., force account,  
6 cooperator, or contractor. When actions are taken on a cooperative fire, the  
7 agency having jurisdiction over the land on which the wildfire occurs will file a  
8 complete report to record and bill for assistance when necessary.

#### 9 **Fish and Wildlife Service Use of WFDSS**

10 FWS follows interagency policy regarding use of WFDSS. Standards for when  
11 WFDSS will be used are found in Chapter 11 of the *Interagency Standards for*  
12 *Fire and Fire Aviation Operations*.

13 Documentation of all other wildfires in WFDSS is at the discretion of the local  
14 unit. All fires in Alaska will have WFDSS initiated by the Protection Agency.

#### 15 **Final Wildland Fire Record**

16 The final wildland fire project record may include the following:

- 17 • FMIS data entry
- 18 • Narrative
- 19 • WFDSS
- 20 • Incident Action Plan(s)
- 21 • Daily weather forecasts and spot weather forecasts
- 22 • Cumulative fire map showing acreage increase by day
- 23 • Total cost summary
- 24 • Monitoring data (Wildland Fire Observation Records)
- 25 • Critique of fire projections on Incident Action Plan

#### 26 **Physical Fitness and Conditioning**

27 Employees serving in wildland fire positions that require a fitness rating of  
28 arduous as a condition of employment are authorized one hour of duty time each  
29 work day for physical fitness conditioning. Employees not having a fitness  
30 rating of arduous as a condition of employment, but who are required by a  
31 Critical Performance element or other written agreement to maintain an arduous  
32 level, will be authorized three hours per week of duty time for physical fitness  
33 condition. All other wildland firefighting personnel holding qualifications  
34 requiring ratings of moderate or arduous may be authorized, by their supervisor,  
35 up to three hours per week of duty time for fitness conditioning. Prior to any  
36 duty time being allowed for physical fitness conditioning, employees and  
37 supervisors must agree, in writing, what physical conditioning activities the  
38 employee will engage in, and when and where they will occur. Activities outside

- 1 of the agreement will not be authorized or allowed. A combination of activities
- 2 designed to increase both physical strength and aerobic fitness, while
- 3 minimizing the possibility of physical injury, should be utilized.

#### 4 **Training**

##### 5 **Agency Administrator Training**

- 6 The qualification standards identified in the *Interagency Fire Program*
- 7 *Management Qualification Standards* are required, in conjunction with specific
- 8 agency requirements, when filling vacant fire program positions, and as an aid in
- 9 developing Individual Development Plans (IDPs) for employees.
- 10 • Refuge Managers/Project Leaders with Service lands under their
- 11 jurisdiction which require the development and maintenance of a Fire
- 12 Management Plan must attend either the National Advanced Fire and
- 13 Resource Institute (NAFRI) or a locally sponsored Fire Management
- 14 Leadership course, or may, upon concurrence of the RFMC, attend the
- 15 Agency Administrator Workshop for Prescribed Fire course which is hosted
- 16 by the National Interagency Prescribed Fire Training Center (PFTC).
- 17 • Field supervisors who may approve prescribed fire plans must attend the
- 18 NAFRI sponsored Fire Management Leadership Course (NFML) or upon
- 19 concurrence of the RFMC, must attend either the Agency Administrator
- 20 Workshop at PFTC or a Local Fire Management Leadership course
- 21 (LFML).
- 22 • Regional Chiefs, Regional Refuge Supervisors, and Refuge
- 23 Managers/Project Leaders must complete periodic refresher training as
- 24 determined by their supervisor in consultation with the RFMC. Refresher
- 25 training options may include attending fire management
- 26 training/workshops, trainee experiences, or mentoring.
- 27 • Guidance for use of the agency qualification for Agency Administrators
- 28 (AADM) can be found in the *Federal Wildland Fire Qualifications*
- 29 *Supplement*.

##### 30 **Zone Fire Management Officer Training**

- 31 All Zone Fire Management Officers (ZFMO) are required to attend the M-581,
- 32 *Interagency Fire Program Management* course, either as a student or as a
- 33 member of the instructor cadre. If attending as an instructor, the ZFMO must be
- 34 present for the entire course. See IFPM requirements.

1 **FWS Firefighter General Training Requirements**2 ***Agency Permanent, Career Seasonal, and Temporary Firefighters***

One-Time Training	Annual Training	Recurring Training
Hazardous Materials-First Responder Awareness Level		First Aid /CPR (every 2 years)
A-100 Basic Aviation Safety (Classroom/Online)	RT-130 Annual Fireline Safety Training	A-100 Basic Aviation Safety (every 3 years)
Hazardous Materials (see 242 FW 6 Table 6-4)	Hazardous Materials (see 242 FW 6 Table 6-4)	Defensive Driving (every 3 years)

3 ***AD and EFF Required Training***

- 4 • First Aid/CPR (every 2 years)
- 5 • Defensive driving (if operating GOV, every 3 years)

6 **Fish and Wildlife Service Specific Qualifications**

7 Guidance regarding agency-specific qualifications that are not contained in the

8 PMS 310-1 can be found in the *Federal Wildland Fire Qualifications*

9 *Supplement*. For qualifications with agency standards which exceed minimums

10 established in the PMS 310-1, refer to the Service Fire Management Handbook.

11 **FWS Global Positioning System (GPS) Datum and Coordinate Format**

12 **Standard**

13 To ensure safe and efficient suppression operations, all FWS fire resources will

14 use a standard GPS datum and latitude/longitude (coordinate) format when

15 communicating GPS references. The standard datum is WGS84, and the

16 standard coordinate format is Degrees Decimal Minutes (DDM). For other

17 activities (e.g., mapping, fire reporting, planning), agency standards will apply.

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1 **Chapter 5**  
2 **USDA Forest Service Wildland Fire and Aviation Program**  
3 **Organization and Responsibilities**

4 **Introduction**

5 This document is intended to be a program reference guide that documents the  
6 standards for operational procedures and practices for the USDA Forest Service  
7 Fire and Aviation Management program. The standards provided in this  
8 handbook are based on current agency and interagency wildland fire  
9 management policy, and are intended to provide fire and aviation program  
10 guidance, and to ensure safe, consistent, efficient, and effective fire and aviation  
11 operations. This document will be reviewed and updated annually.

12 **Foundational Doctrine**

13 The vision of the Forest Service's Fire and Aviation Management program is to  
14 safely and effectively extinguish fire, when needed; use fire where allowable;  
15 manage our natural resources; and as a Nation, live with wildland fire. To  
16 support this vision, five objectives set the foundation for an all-inclusive and  
17 comprehensive High Reliability Fire Management program. These objectives  
18 are intrinsic for supporting the vision.

- 19 • Risk Management and Risk Reduction- transforming our workforce into a  
20 more refined safety culture.
- 21 • Implementing fire management programs to protect the ecology of Forest  
22 Service lands for multiple uses.
- 23 • Enhanced and Improved Collaboration and Partnerships.
- 24 • Learning – utilizing science, research, and innovative practices.
- 25 • Empowerment of employees in leadership, judgment, and decision making.

26 Doctrine is beliefs and teachings which form the fundamental core values of our  
27 work. Doctrinal approach goes beyond strict compliance with procedural rules,  
28 and promotes risk-based application of wildland fire management principles to  
29 improve decision making and firefighter safety. Foundational doctrine has been  
30 codified in Forest Service Manual 5100 direction and will guide fundamental  
31 wildland fire management policy, practices, behaviors, and customs to be  
32 mutually understood at every level of command.

33 The following collection of principles and beliefs form the foundational doctrine  
34 for fire suppression in the U.S. Forest Service. These principles and beliefs  
35 operate at multiple organizational levels, including:

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- 1 • Forest Service Wide (i.e., applies to all employees and activities).
- 2 • Fire and Aviation Management (i.e., are specific to the fire and aviation
- 3 management program).
- 4 • Fire Suppression (i.e., are specific to firefighting activities).

#### 5 The Operational Environment

- 6 • *Fire Suppression*
  - 7 1. No resource or facility is worth the loss of human life; however, the
  - 8 wildland fire suppression environment is complex and possesses inherent
  - 9 hazards that can, even with reasonable mitigation, result in harm to fire
  - 10 fighters engaged in fire suppression operations. In recognition of this fact,
  - 11 we are committed to the aggressive management of risk.

#### 12 Mission

- 13 • *Forest Service Wide*
  - 14 2. The Forest Service is prepared and organized to support national and
  - 15 international emergencies with trained personnel and other assets when
  - 16 requested.
  - 17 3. Agency employees respond when they come across situations where
  - 18 human life is immediately at risk or there is a clear emergency, and they are
  - 19 capable of assisting without undue risk to themselves or others.
  - 20 4. In responding to emergencies, we will bring the same professionalism
  - 21 and passion for safety as we do to non-emergency situations.
  - 22 5. Support for local fire emergencies takes priority over accomplishment of
  - 23 local resource targets. Support of non-local fire emergencies will be at the
  - 24 discretion of the local line officer, as bounded by agency agreements and
  - 25 Regional or National direction.
  - 26 6. A cooperative relationship between the Forest Service and other agencies
  - 27 is essential. The Forest Service is committed to honor its part of the joint
  - 28 responsibility to develop and maintain effective working relationships with
  - 29 its intergovernmental cooperators.
- 30 • *Fire and Aviation Management*
  - 31 7. Fire management is central to meeting the Forest Service mission –
  - 32 conserving natural resources, restoring ecological health, and protecting
  - 33 communities.
- 34 • *Fire Suppression*
  - 35 8. Successful fire suppression is essential to support the Forest Service
  - 36 mission.
  - 37 9. The intent of wildfire suppression is to protect human life, property, and
  - 38 at risk lands and resources.

#### 39 Leadership and Accountability

- 40 • *Forest Service Wide*
  - 41 10. The hallmarks of Forest Service leadership are action, attitude, and
  - 42 accountability.

11. Leaders express clear and concise intent to ensure assignments are managed safely, effectively, and efficiently.
  12. Leaders regularly monitor operations for effectiveness, and take action when there is recognition of exceptional or problematic employee performance.
  13. Both positive reinforcement and discipline will be based on individual behavior as measured by adherence to the rules; appropriate application of doctrine, principles, and guidelines; execution of responsibilities commensurate with role; and appropriate use of available information.
- *Fire Suppression*
14. Demonstrated fitness for command is a requirement for leadership positions associated with firefighting.

### 13 Roles and Relationships

- *Forest Service Wide*
15. Commitment to duty, respect for others, and personal integrity are expected. Every employee fosters a work environment that is enjoyable, rewarding, recognizes the value of diversity, and is free of harassment.
- *Fire and Aviation Management*
16. Line officers with fire management responsibilities will have knowledge and understanding of fire program management.
  17. Contracted resources will meet identified standards for qualifications, training, productivity, and efficiency necessary to meet emergency response needs.
  18. It is the Forest Service responsibility to initiate and participate in public education efforts to promote support for necessary fire management activities.
- *Fire Suppression*
19. Every Forest Service employee has a responsibility to support fire suppression emergencies in a manner that meets identified needs, and is within their qualifications and capabilities.

### 31 Operations

- *Forest Service Wide*
20. Employees are expected and empowered to be creative and decisive, to exercise initiative and accept responsibility, and to use their training, experience, and judgment in decision-making to carry out their leader's intent.
  21. Employees are expected and empowered to make reasonable and prudent decisions to accomplish the agency mission while minimizing exposure to hazards.
  22. Clear, uncomplicated plans and concise orders maximize effectiveness and minimize confusion.

1 • *Fire Suppression*

2 23. When it is time to fight fire, we do so in a manner that maximizes  
3 effectiveness of effort, has highest regard for firefighter and public safety,  
4 and controls costs.

5 24. Every fire suppression operation is directed toward clearly-defined,  
6 decisive, and obtainable objectives.

7 25. Command and control must be decentralized to cope with the  
8 unpredictable nature of fire. To achieve their leader's intent and accomplish  
9 operational objectives, subordinate commanders are required to make  
10 decisions on their own initiative, and to coordinate their efforts.

11 26. Unity of effort is maintained and suppression actions are coordinated at  
12 all times.

13 27. Using principles requires judgment in application, while adherence to  
14 rules does not. In combination, principles and rules guide our fundamental  
15 wildland fire suppression practices and behaviors, and are mutually  
16 understood at every level of command.

17 28. Rapid deployment and concentration of fire suppression resources at the  
18 decisive time and place is essential to successful fire suppression actions.

19 29. Maintaining high capability for initial attack is essential to public and  
20 fire fighter safety, accomplishment of management objectives, and cost  
21 containment.

22 **Risk Management**

23 • *Fire Suppression*

24 30. We practice risk management to minimize the exposure and affects of  
25 the inherent hazards in fire suppression while maximizing the opportunities  
26 to achieve leader intent.

27 **Agency Administrator Roles and Responsibilities for Incident Management**

28 **Agency Administrator Core Competencies**

29 Core competencies include:

- 30 • Risk management
- 31 • Incident management processes
- 32 • WFDSS and other decision support tools
- 33 • Social, political economic impacts
- 34 • Collaboration with partners and stakeholders

35 For additional information, a copy of the *Line Officer Desk Reference for Fire*  
36 *Program Management* can be downloaded at  
37 [http://www.wfmrda.nwcg.gov/line\\_officer\\_resources.php](http://www.wfmrda.nwcg.gov/line_officer_resources.php).

38 **Agency Administrator Certification Program**

39 The following principles will guide certification of Agency Administrators in  
40 wildfire management:

- 1 • Regional Foresters are accountable for certification of Agency  
2 Administrators;
- 3 • Agency Administrator evaluation includes standards for training,  
4 background and experience, and demonstrated ability, which will result in a  
5 qualitative evaluation of readiness by the Regional Forester;
- 6 • When the complexity level of a fire exceeds an Agency Administrator's  
7 certification, a coach will be assigned to advise (but not replace);
- 8 • This certification program will be periodically evaluated and updated as  
9 needed;
- 10 • Assistance with decision documentation and analysis can be requested  
11 through the Wildland Fire Management RD&A – National Fire Decision  
12 Support Center (NFDSC); and
- 13 • The Coaching/Shadowing program, to be administered by each region, is an  
14 integral part of this certification program.

15 **Agency Administrators will be evaluated in three basic areas:**

- 16 • Training;
- 17 • Background and experience; and
- 18 • Demonstrated understanding of concepts and principles.

19 This certification program is a multi-level process where Agency Administrators  
20 demonstrate competence in one of three levels of managing fires. Those levels  
21 would be Working, Journey, and Advanced.

22 **Guidelines**

23 In consideration of the appropriate level (Working, Journey, Advanced) to  
24 assign an Agency Administrator, the Regional Forester should consider the  
25 following guidelines:

- 26 • For individuals that do not meet at least the Working Level, a coach will be  
27 assigned to support that Agency Administrator in managing Type 3 or  
28 higher wildfire incidents.

29 **Working Level** – The Agency Administrator could manage a low to moderate  
30 complexity fire. The Agency Administrator should meet the following:

- 31 • **Training:** Local or National Fire Management Leadership, and WFDSS  
32 training.
- 33 • **Background and Experience:**
  - 34 ○ Successful management of a minimum of one Type 3 or higher fire.  
35 Consider duration, complexity and size of the fire.
  - 36 ○ Management oversight of a low-complexity fire program and/or  
37 experience as an Agency Administrator or representative.
  - 38 ○ Applicable experience in all-hazard or other incident oversight may be  
39 considered in lieu of this experience.
  - 40 ○ Consider career fire experience.

- 1 • **Demonstrated Ability:** Successful evaluation by a coach (including  
2 feedback from ICs or ACs) that the candidate has demonstrated  
3 understanding and application of the responsibilities of an Agency  
4 Administrator on smaller low-complexity fires with a basic understanding  
5 of the elements of the core competencies.
- 6 **Journey Level** – The Agency Administrator could manage a moderate to high  
7 complexity fire. The Agency Administrator needs to be certified at the Working  
8 Level and should meet the following:
- 9 • **Training:** Local or National Fire Management Leadership, and WFDSS  
10 training.
- 11 • **Background and Experience:**
- 12 ○ Successful management of a minimum of one Type 2 or higher fire, or  
13 one successful higher complexity fire (Type 1). Duration, complexity  
14 and size of the fire should be considered.
- 15 ○ Management oversight of a moderate-complexity fire program, or  
16 experience as an Agency Administrator or Representative on Type 2 or  
17 higher fires.
- 18 ○ Applicable experience in all-hazard or other incident oversight may  
19 also be considered in lieu of other guidelines.
- 20 • **Demonstrated Ability:** Successful evaluation by a coach (including  
21 feedback from ICs or ACs) that the candidate has demonstrated  
22 understanding and application of the responsibilities of an Agency  
23 Administrator/Representative on moderate to large complex fires in the core  
24 competencies, and other elements that may be relevant.
- 25 **Advanced Level** – The Agency Administrator could manage a high complexity  
26 fire. The Agency Administrator needs to be certified at the Journey Level, and  
27 should meet the following:
- 28 • **Training:** Local or National Fire Management Leadership and WFDSS  
29 training.
- 30 • **Background and Experience:**
- 31 ○ Successful management of several Type 1 or 2 fires (at least one is a  
32 Type 1 fire), depending on fire experience. Duration, complexity, and  
33 size of the fires should be considered.
- 34 ○ Management oversight of a moderate to high-complexity fire program.
- 35 ○ Applicable experience in all-hazard or other incident oversight may  
36 also be considered in lieu of other guidelines.
- 37 • **Demonstrated Ability:** Successful evaluation by a coach (including  
38 feedback from ICs or ACs) that the candidate has demonstrated  
39 understanding and application of the responsibilities of an Agency  
40 Administrator on large complex fires in the core competencies, and other  
41 elements that may be relevant.

**1 Evaluation Process**

- 2 • Every trainee will receive an evaluation from a certified Agency
- 3 Administrator/Agency Administrator Representative or coach using the
- 4 form identified in the *Line Officer Desk Reference for Fire Program*
- 5 *Management*.
- 6 • Individuals involved in a shadow assignment should receive creditable
- 7 experience through documentation.

**8 Creditable work experiences to achieve and maintain certification levels:**

- 9 • Coaching
- 10 • Regional Forester Representative (RFR)
- 11 • Acting Agency Administrator/Representative assignments
- 12 • Shadow assignments

**13 Training opportunities to achieve and maintain core competencies:**

- 14 • Upper levels of fire leadership and fire management courses;
- 15 • Function as the Line Officer in sand table exercises and training simulations
- 16 in S-420, S-520, and other fire courses;
- 17 • Participate in advanced risk management training;
- 18 • Get assigned to a Type 1 or Type 2 team as a training assignment (e.g.,
- 19 shadow plans) and see the world from their viewpoint;
- 20 • WFDSS training (see the WFDSS homepage <http://wfdss.usgs.gov> for
- 21 training materials and the WFM RD&A Line Officer Resources page for
- 22 Agency Administrator specific refresher training materials
- 23 [http://www.wfmrda.nwcg.gov/line\\_officer\\_resources.php](http://www.wfmrda.nwcg.gov/line_officer_resources.php));
- 24 • Include risk management and fire management topics during annual line
- 25 officer meetings;
- 26 • Attend staff rides (staff rides need to include a stand that portrays the line
- 27 officer perspective);
- 28 • Participate in prescribed fires and/or attend prescribed fire training;
- 29 • Participate in other leadership and/or decision-making training;
- 30 • Attend L-580 *Leadership is Action*.

**31 Currency**

32 Currency is reviewed annually by the Certifying Official for frequency of  
33 demonstrated exercise of Core Competencies. It is recommended an Agency  
34 Administrator/Representative engage in a Type 1 or Type 2 incident within a  
35 five-year period. An assignment may include coaching or shadowing.

**36 Guidance on the Selection of Coaches**

37 Coaches can be a current or former Agency Administrator/Representative. The  
38 Regional Forester determines the level of certification for which a coach is  
39 qualified.

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- 1 Criteria for individuals serving as Coaches are as follows:
- 2 • Must be a "Journey" level Agency Administrator/Representative in dealing
  - 3 with large fire incident, or rated at an experience level commensurate with
  - 4 incident being managed; Present and past Agency Administrators can serve
  - 5 as coaches, including retirees that were qualified/experienced; and
  - 6 • Must be willing and able to serve as a Coach.

7 **Definitions**

8 **Agency Administrator:** An individual with the delegated authority for an  
9 incident.

10 **Coach:** A fully qualified Agency Administrator/Representative at journey or  
11 advanced level.

12 **Shadow:** An individual that does not perform the duty of Agency  
13 Administrator/Representative, but observes a qualified, designated Agency  
14 Administrator/Representative.

15 **Agency Administrator Trainee:** An Agency Administrator working on  
16 certification by performing the role under the supervision and authority of the  
17 Agency Administrator and/or Representative.

18 **Coach/Shadow Team:** A team comprised of a qualified Coach and group of  
19 Shadows who may travel to multiple incidents and support sites to increase their  
20 level of understanding.

21 **Acting Agency Administrator:** An individual acting in an Agency  
22 Administrator roll certified at the level required by the incident complexity and  
23 delegated authorities to provide relief and support.

24 **Regional Forester Agency Administrator Representative:** A representative  
25 that carries out roles and responsibilities as delegated.

26 **Specific Agency Administrator Responsibilities for Fire and Aviation at the**  
27 **Field Level**

28 The Forest Service has developed core fire management competencies. They are  
29 presented here for reference:

- 30 • Knowledge of fire program management including ability to integrate fire
- 31 and fuels management across all program areas and functions;
- 32 • Ability to implement fire management strategies and integrate natural
- 33 resource concerns into collaborative community protection and ecosystem
- 34 restoration strategies;
- 35 • Knowledge to oversee a fire management program including budget,
- 36 preparedness, prevention, suppression, and hazardous fuels reduction;

- 1 • Ability to serve as an Agency Administrator during an incident on an
  - 2 assigned unit; and
  - 3 • Ability to provide a fully staffed, highly qualified, and diversified
  - 4 firefighting workforce that exists in a "safety first" and "readiness"
  - 5 environment.
- 6 **Responsibilities**
- 7 • Integrate fire and fuels management across all functional areas.
  - 8 • Implement fire management strategies and integrate natural resource
  - 9 concerns into collaborative community protection and ecosystem restoration
  - 10 strategies on the unit.
  - 11 • Manage a budget that includes fire preparedness, prevention, suppression,
  - 12 and hazardous fuels in an annual program of work for the unit.
  - 13 • Ensure the DLA Wildland Fire Equipment Catalog is used as the primary
  - 14 and mandatory source of supply for wildland fire suppression equipment,
  - 15 supplies and protective clothing. Any deviation must follow the
  - 16 requirements listed in FSH 6309.32 - Required Sources of Supplies and
  - 17 Services and FAR 8.002 - Priorities for Use of Government Supply Sources.
  - 18 The deviation must be supported by a Job Hazard Analysis (JHA) that
  - 19 documents the specific reason the stock item does not meet the job
  - 20 requirements and is signed by the applicable line officer. The purchasing
  - 21 official must confirm that the JHA supports the alternate purchase. The
  - 22 DLA Wildland Fire Equipment Catalog is at
  - 23 [http://www.gsa.gov/portal/mediaId/237435/fileName/DLA\\_WFPP\\_Catalog](http://www.gsa.gov/portal/mediaId/237435/fileName/DLA_WFPP_Catalog_2015_(Final).action)
  - 24 [\\_2015\\_\(Final\).action](http://www.gsa.gov/portal/mediaId/237435/fileName/DLA_WFPP_Catalog_2015_(Final).action).
  - 25 • Perform duties of Agency Administrator and maintain those qualifications.
  - 26 • Provide a fully staffed, highly qualified, and diverse workforce in a "safety
  - 27 first" environment.
  - 28 • Support and participate in wildfire prevention.

29 These responsibilities are based on current policy and provide program guidance  
30 to ensure safe, consistent, efficient, and effective fire and aviation operations.

31 **Preparedness**

- 32 • Take all necessary and prudent actions to ensure firefighter and public
- 33 safety.
- 34 • Ensure sufficient qualified fire and non-fire personnel are available to
- 35 support fire operations at a level commensurate with the local and national
- 36 fire situation.
- 37 • Ensure accurate position descriptions are developed and reflect the
- 38 complexity of the unit. Individual Development Plans promote and enhance
- 39 FMO currency and development.
- 40 • Provide a written Delegation of Authority to FMOs that provides an
- 41 adequate level of operational authority at the unit level. Include Multi-
- 42 Agency Coordinating (MAC) Group authority, as appropriate.

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- 1 • Identify resource management objectives to maintain a current Fire  
2 Management Plan (FMP) that identifies an accurate level of funding for  
3 personnel and equipment.
- 4 • Develop preparedness standards that are in compliance with agency fire  
5 policies.
- 6 • Management teams meet once a year to review fire and aviation policies,  
7 roles, responsibilities, and delegations of authority. Specifically address  
8 oversight and management controls, critical safety issues, and high-risk  
9 situations such as transfers of incident command, periods of multiple fire  
10 activity, and Red Flag Warnings.
- 11 • Ensure fire and aviation preparedness reviews are conducted each year and  
12 include the key components of the record of decision for the nationwide  
13 aerial application of fire retardant on National Forest System land.
- 14 • Meet annually with cooperators and review interagency agreements to  
15 ensure their continued effectiveness and efficiency.
- 16 • Meet annually with local US Fish and Wildlife Service and NOAA  
17 Fisheries specialists to ensure the avoidance maps reflect changes during  
18 the year on additional species or changes made for designated critical  
19 habitat, and reporting and monitoring guidelines are still valid and being  
20 applied.
- 21 • Convene and participate in annual conferences and fire reviews.
- 22 • Agency Administrators, Fire Program Managers, and/or Safety and Health  
23 Program Managers shall conduct after action reviews on all Type 3 fires  
24 and a minimum of 10% of their unit's Type 4 and 5 fires and document  
25 their inspections in the incident records.

#### 26 **Suppression**

- 27 • Ensure use of fire funds is in compliance with Agency policies.
- 28 • All fires must utilize the WFDSS to inform and document decisions related  
29 to course of action, resource allocations, and risk management  
30 considerations. WFDSS will be used to approve and publish decisions on all  
31 fires that exceed initial attack or include a resource management objective.  
32 See table below for WFDSS approval authorities.
- 33 • Personally attend reviews on Type 1 and Type 2 fires. Ensure Agency  
34 Administrator representatives are assigned when appropriate.
- 35 • Provide incident management objectives (all wildfires must have a  
36 protection objective), written delegations of authority, and a complete  
37 Agency Administrator briefing to Incident Management Teams.
- 38 • Ensure briefings include any applicable information for avoidance areas and  
39 waterways per the nationwide aerial application of fire retardant direction,  
40 mapping, and cultural resources. Include the reporting requirements in the  
41 briefing if a misapplication of fire chemical occurs. Provide resource  
42 advisors if the use of aerially applied fire retardant is expected and the unit  
43 has mapped avoidance areas (which include waterways and 300' or larger

- 1 buffers) and otherwise evaluate the need for resource advisors for all other
- 2 fires, and assign as appropriate.
- 3 • For all unplanned human-caused fires where responsibility can be
- 4 determined, ensure actions are initiated to recover cost of suppression
- 5 activities, land rehabilitation, damages to the resource, and improvements.
- 6 • Ensure structure exposure protection principles are followed.

#### 7 Responsibilities and Oversight

- 8 • Agency Administrators are responsible for all aspects of fire management.
- 9 • Agency Administrators will ensure that all Forest Service employees and
- 10 employees of interagency partners working on Forest Service jurisdiction
- 11 wildfires clearly understand direction.
- 12 • Agency Administrators must approve and publish decisions in WFDSS and
- 13 issue delegations of authority to the Incident Commander. The Agency
- 14 Administrator authority is based on incident type.

Incident Type	USFS Approval*
Type 1	Regional Forester level with National oversight
Type 2	Forest Supervisor level with oversight by the Regional Forester
Type 3, 4, 5	District Ranger level with oversight by the Forest Supervisor
	This authority may be delegated to an Agency Administrator who meets wildfire response certification requirements.

15 \*Authority may be retained at the Regional Forester level.

- 16 • Critical long duration wildfire oversight roles include ensuring that:
- 17 ○ Up-to-date Published Decisions are completed and documented in
- 18 WFDSS.
- 19 ○ Hazards are identified and risk assessments are incorporated into
- 20 Published Decisions.
- 21 ○ Coordination with partners and potentially affected parties is conducted
- 22 (including smoke impacts). Unified command is implemented early if
- 23 necessary.
- 24 ○ Resource capacity and availability are adequately assessed to meet
- 25 expectations.
- 26 • This oversight role should address concerns of the states, cooperators, and
- 27 the public including air quality impacts from multiple wildfires.

#### 28 Risk Management Framework

29 Sound decision making relies on identifying reasonable objectives for protection  
30 of critical values at risk, while considering the amount and quality of exposure

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- 1 to firefighters and the likelihood of success. The Forest Service is committed to
- 2 using a risk management framework that is comprised of three (3) key elements:
- 3 Pre-season preparedness work is critical to success when a fire starts.
- 4 • Build capacity of our decision makers and their key stakeholders to manage
- 5 the uncertainty and inherent risks of fires.
- 6 • Complete landscape level risk assessments by developing a common
- 7 understanding of what are the values to be protected and can be summed up
- 8 best by answering these questions; 'What is important?', 'Why is it
- 9 important?', 'How important is it?', and 'What are the consequences?'
- 10 • Complete a risk analysis, in concert with key stakeholders and partner
- 11 agencies, to predetermine the range of acceptable response strategies for
- 12 protecting the identified values at risk while balancing firefighter and public
- 13 exposure.
- 14 During incident phase focuses on a Seven (7) Step Risk Management Process:
- 15 1. Complete an incident Risk Assessment.
- 16 • Develop an assessment of what is at risk (from preseason work or input
- 17 from key stakeholders), and the associated probabilities and potential
- 18 consequences.
- 19 2. Complete a Risk Analysis.
- 20 • Consider alternatives (objectives, strategies and tactics) against desired
- 21 outcomes, exposure to responders, probability of success and values to
- 22 be protected.
- 23 3. Complete Two-Way Risk Communications.
- 24 • Engage community leaders, local government officials, partners, and
- 25 other key stakeholders of the incident to share the risk picture and enlist
- 26 input.
- 27 4. Conduct Risk Sharing Dialogue.
- 28 • Engage appropriate senior line officers and political appointees (as
- 29 necessary) regarding the potential decision aimed at obtaining
- 30 understanding, acceptance, and support for the alternatives and likely
- 31 decision.
- 32 5. Make the Risk Informed Decision.
- 33 6. Document the risk: assessment, analysis, communication, sharing and
- 34 decision in WFDSS.
- 35 7. Continue Monitoring and Adjusting as necessary or as conditions change.
- 36 After the incident: As a learning organization we should always strive to
- 37 improve how we conduct our business. We should endeavor to learn from
- 38 each incident and apply those lessons.
- 39 • Complete an incident after action review.
- 40 ○ Engage key stakeholders of the incident to be involved.
- 41 ○ Review what worked, what did not work and suggestions for
- 42 improvement.

- 1     • Conduct a peer review after action process.
  - 2         ○ Engage others who have had similar incidents to learn strategies
  - 3         for improvement.
  - 4     • Implement plans for improvement.
  - 5         ○ Make use of lessons learned in real-time if possible.
- 6 The following Risk Assessment and Risk Decision questions are designed to
- 7 inform fire management decisions by stimulating thinking and prompting
- 8 dialogue, analyzing and assessing risk, and recognizing shared risks and
- 9 communicating those risks within the Agency and with partners and
- 10 stakeholders.
- 11     • Risk Assessment:
    - 12         1. What are the critical values at risk?
    - 13         2. What is the chance the critical values will be impacted, and if so what
    - 14         are the consequences?
    - 15         3. What are the opportunities to manage fire to meet land management
    - 16         objectives?
    - 17         4. What are the possible low probability/high consequence events?
    - 18         5. Who are the stakeholders that should be consulted prior to making a
    - 19         decision?
  - 20     • Risk Decision:
    - 21         6. What alternatives (objectives, strategies, and tactics) are being
    - 22         considered?
    - 23         7. What is the exposure of responders for the alternatives being
    - 24         considered?
    - 25         8. What is the relative probability of success associated with the
    - 26         alternatives being considered?
    - 27         9. What alternative provides for the best balance between the desired
    - 28         outcome and exposure to responders?
    - 29         10. What are the critical thresholds that will trigger reconsideration of the
    - 30         proposed alternative and how will they be monitored?
- 31 **Safety**
- 32     • Review safety policies, procedures, and concerns with field fire and
  - 33     aviation personnel.
  - 34     • Ensure timely follow-up actions to program reviews, fire preparedness
  - 35     reviews, fire and aviation safety reviews, and management reviews.
  - 36     • Monitor the fire situation and provide oversight during periods of critical
  - 37     fire activity and situations of high risk.
  - 38     • Ensure there is adequate direction in fire management plans to maintain fire
  - 39     danger awareness.
  - 40     • Take appropriate actions with escalating fire potential.
  - 41     • Ensure appropriate investigation or Lessons Learned analyses are conducted
  - 42     for incidents, entrapments, and serious accidents.

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**1 Fuels**

- 2 • Complete a fuels treatment effectiveness assessment on all wildfires which
- 3 start in or burn into a fuel treatment area.
- 4 • Enter results of the assessment in the Fuels Treatment Effectiveness
- 5 Monitoring (FTEM) database found at [www.nwportal.fs.usda.gov](http://www.nwportal.fs.usda.gov) within 90
- 6 days of control of the fire. Reference FSM 5140.

**7 Prescribed Fire**

- 8 • Provide program leadership by visiting prescribed fire treatment projects
- 9 and providing leader's intent to prescribed fire personnel.
- 10 • Ensure compliance with National and Regional Office policy and direction
- 11 for prescribed fire activities and ensure that periodic reviews and
- 12 inspections of the prescribed fire program are completed.
- 13 • Adhere to procedures for Regional and/or National level approvals for new
- 14 and continued prescribed fire activities at National Preparedness Levels 4
- 15 and 5 as described in the *National Interagency Mobilization Guide*.
- 16 • Ensure a Prescribed Fire Plan is written and approved for each project prior
- 17 to implementation in accordance with the *Interagency Prescribed Fire*
- 18 *Planning and Implementation Procedures Guide* (PMS 484) available at
- 19 <http://www.nwcg.gov/publications/484>.
- 20 • Review Prescribed Fire Plans:
  - 21 ○ Ensure that the prescribed fire plan has been reviewed and
  - 22 recommended by a qualified technical reviewer.
  - 23 ○ Ensure that prescribed fire plans are designed to achieve desired
  - 24 conditions as described in Land and Resource Management Plans and
  - 25 project-specific NEPA decision document.
- 26 • Approve Prescribed Fire Plans:
  - 27 ○ Minimum qualifications for Forest Supervisors, District Rangers, other
  - 28 Line Officers and formally delegated "Acting" Line Officers to approve
  - 29 prescribed fire plans are:
    - 30 ■ Completing a National or Regional Fire Management Leadership
    - 31 course, or
    - 32 ■ Completing an Agency Administrator Workshop at the National
    - 33 Prescribed Fire Training Center, or
    - 34 ■ Qualifying in a Type 1 or 2 Command and General Staff position
    - 35 (currency not required), or
    - 36 ■ Qualifying as a Prescribed Fire Burn Boss (RXB1 or RXB2) or
    - 37 Prescribed Fire Manager (RXM1 or RXM2) (currency not
    - 38 required).
  - 39 ○ Attending an agency administrator session at the National Prescribed
  - 40 Fire Training Center (PFTC) may be substituted for the minimum
  - 41 training requirement for approving prescribed fire plans only.
  - 42 ○ Authority to approve prescribed fire plans is held at the Forest
  - 43 Supervisor level but may be delegated in writing to other qualified line
  - 44 officers or staff. Delegations should be based on meeting the minimum

- 1 training or experience described above and demonstrated ability.
- 2 Documentation that supports the delegated authorities should be
- 3 included in the individuals training records.
- 4 ○ Approve prescribed fire plan amendments and determine the need for
- 5 additional technical review of proposed plan amendments prior to
- 6 approval.
- 7 • Reauthorize all prescribed fire plans if more than one year has elapsed since
- 8 last authorization.
- 9 • Report all instances of prescribed fires resulting in a wildfire declaration
- 10 and/or air quality Notice-of-Violation as required in FSM 5140.

#### 11 **Fire Management Position Requirements**

12 The *Interagency Fire Program Management Qualifications Standard (IFPM)*  
13 and *Forest Service Fire Program Management Standard (FS-FPM)* will be used  
14 in conjunction with specific agency requirements when filling vacant fire  
15 program positions, and as an aid in developing Individual Development Plans  
16 (IDPs) for employees.

#### 17 **Specific Fire Management Staff Responsibilities for Fire Operations at the** 18 **Field Level**

##### 19 **Preparedness**

- 20 • Use sound risk management practices as the foundation for all aspects of
- 21 fire and aviation management.
- 22 • Ensure that only trained and qualified personnel are assigned to fire and
- 23 aviation duties.
- 24 • Develop, implement, evaluate, and document fire and aviation training
- 25 program to meet current and anticipated needs.
- 26 • Establish an effective process to gather, evaluate, and communicate
- 27 information to managers, supervisors, and employees. Ensure clear concise
- 28 communications are maintained at all levels.
- 29 • Ensure fire and aviation management staffs understand their roles,
- 30 responsibilities, authority, and accountability.
- 31 • Develop and maintain effective communication with the public and
- 32 cooperators.
- 33 • Regardless of funding level, provide a safe, effective, and efficient fire
- 34 management program.
- 35 • Organize, train, equip, and direct a qualified work force. An Individual
- 36 Development Plan (IDP) must be provided for incumbents who do not meet
- 37 new standards. Establish qualification review process.
- 38 • Take appropriate action when performance is exceptional or deficient.
- 39 • Ensure fire and aviation policies are understood, followed, and coordinated
- 40 with other agencies as appropriate.
- 41 • Ensure that adequate resources are available to implement fire management
- 42 operations.

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- 1 • Provide fire personnel with adequate guidance, training, and decision-
- 2 making authority to ensure timely decisions.
- 3 • Develop and maintain agreements, annual operating plans, and contracts on
- 4 an interagency basis to increase effectiveness and efficiencies.
- 5 • Develop, maintain, and annually evaluate the FMP to ensure accuracy and
- 6 validity.
- 7 • Ensure budget requests and allocations reflect preparedness requirements in
- 8 the FMP.
- 9 • Develop and maintain current operational plans (e.g., dispatch, pre-attack,
- 10 prevention).
- 11 • Ensure that reports and records are properly completed and maintained.
- 12 • Ensure fiscal responsibility and accountability in planning and expenditures.
- 13 • Assess, identify, and implement program actions that effectively reduce
- 14 unwanted wildland fire ignitions and mitigate risks to life, property, and
- 15 resources.
- 16 • Work with cooperators to identify processes and procedures for providing
- 17 fire adapted communities within the wildland urban interface.

#### 18 **Suppression**

- 19 • Provide for and personally participate in periodic site visits to individual
- 20 incidents and projects.
- 21 • Utilize the Organizational Needs Assessment and/or Complexity Analysis
- 22 to ensure the proper level of management is assigned to all incidents.
- 23 • Ensure incoming personnel and crews are briefed prior to fire and aviation
- 24 assignments.
- 25 • Coordinate the development of Published Decisions within WFDSS with
- 26 local unit staff specialists for all fires that escape initial attack.
- 27 • Ensure effective transfer of command of incident management occurs and
- 28 safety is considered in all functional areas.
- 29 • Monitor fire activity to anticipate and recognize when complexity levels
- 30 exceed program capabilities. Increase managerial and operational resources
- 31 to meet needs.
- 32 • Complete cost recovery actions when unplanned human-caused fires occur.
- 33 • Ensure structure exposure protection principles are followed.
- 34 • Ensure all misapplications of wildland fire chemicals are reported and
- 35 appropriate consultation conducted as needed (see Chapter 12).
- 36 • Ensure 5% assessment of fires less than 300 acres that had aerial fire
- 37 retardant used and have avoidance areas as a result of the record of decision
- 38 for the nationwide aerial application of fire retardant on National Forest
- 39 System land is completed and documented for misapplication reporting.
- 40 • Ensure all assessments of impacts to threatened and endangered species or
- 41 cultural resources are conducted by trained and qualified resource
- 42 personnel.

**1 Safety**

- 2 • Ensure completion of a Job Hazard Analysis (JHA) for fire and fire aviation
- 3 activities, and implement applicable risk mitigation measures.
- 4 • Ensure work/rest and R&R guidelines are followed during all fire and
- 5 aviation activities. Deviations are approved and documented.
- 6 • Initiate, conduct, and/or participate in fire management related reviews and
- 7 investigations.
- 8 • Monitor fire season severity predictions, fire behavior, and fire activity
- 9 levels. Take appropriate actions to ensure safe, efficient, and effective
- 10 operations.

**11 Prescribed Fire**

- 12 • Ensure a written, approved burn plan exists for each prescribed fire project.
- 13 • Prepare and implement all prescribed fire plans in accordance with the
- 14 *Interagency Prescribed Fire Planning and Implementation Procedures*
- 15 *Guide* (PMS 484) available at <http://www.nwcg.gov/publications/484>.
- 16 • Ensure that the Prescribed Fire Burn Boss assigned to each project is
- 17 qualified at the appropriate level as determined by project complexity (see
- 18 the *Interagency Prescribed Fire Planning and Implementation Procedures*
- 19 *Guide* at <http://www.nwcg.gov/publications/484> for specific guidance).
- 20 • Review and update all prescribed fire plans as necessary to comply with
- 21 policy or procedures and submit to agency administrator for review and
- 22 approval.
- 23 • Submit amendments to prescribed fire plans to the agency administrator for
- 24 approval.
- 25 • If more than one year has elapsed since approval, a prescribed fire plan will
- 26 be reviewed to ensure assumptions are still valid and conditions have not
- 27 changed, updated as necessary, and resubmitted to the agency administrator
- 28 for approval.

**29 Structure Exposure Protection Principles****30 Mission and Role**

31 A significant role of the Forest Service is to manage natural resources on public  
32 land, and management of unwanted wildland fire is a primary mission in that  
33 role. Wildland firefighter training, tools, and personal protective equipment are  
34 based on the wildland environment. This does not prevent using wildland tactics  
35 in the Wildland Urban Interface (WUI) when risks are mitigated. Wildland  
36 firefighter training for the WUI, however, is centered on the concepts of  
37 preventing wildland fire from reaching areas of structures and/or reducing the  
38 intensity of fire that does reach structures. Fire suppression actions on structures  
39 that are outside federal jurisdiction, outside the scope of wildland firefighting  
40 training, or beyond the capability of wildland firefighting resources are not  
41 appropriate roles for the Forest Service.

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1 Forest Service leadership will express clear and concise “leader’s intent” to  
2 ensure structure protection assignments are managed safely, effectively, and  
3 efficiently. Leaders are expected to operate under existing policies and doctrine  
4 under normal conditions. Where conflicts occur, employees will be expected to  
5 weigh the risk versus gain, and operate within the intent of Agency policy and  
6 doctrine.

#### 7 **Strategic Principles**

- 8 • The Forest Service actively supports creation of Firewise and Fire Adapted  
9 Communities and structures that can survive wildland fire without  
10 intervention. We support the concept that property owners have primary  
11 responsibility for reducing wildfire risks to their lands and assets.
- 12 • The Forest Service will actively work toward applying Firewise concepts to  
13 all Forest Service owned structures, facilities, and permitted use to serve as  
14 a model to publics and communities.
- 15 • The Forest Service will apply strategy and tactics to keep wildland fires  
16 from reaching structures, as prudent to do so, considering risk management  
17 for firefighters and publics, fire behavior, values at risk including natural  
18 resources, availability of firefighting resources, and jurisdictional  
19 authorities.
- 20 • The Forest Service will be proactive in developing agreements with  
21 interagency partners to clarify its structure protection policy.
- 22 • The Forest Service structure protection role is based on the assumption that  
23 other Departments and agencies will fulfill their primary roles and  
24 responsibilities. The Forest Service will not usurp individual, local, or state  
25 responsibility for structure protection.
- 26 • Prior to task implementation, a specific structure protection role briefing  
27 will be accomplished.

#### 28 **Tactical Applications**

##### 29 *Structure Protection Definition*

30 Actions taken in advance of a fire reaching structures or other improvements are  
31 intended to safely prevent the fire from damaging or destroying these values at  
32 risk. For the Forest Service, structure protection involves the use of standard  
33 wildland fire suppression tactics and control methods; including the use of  
34 standard equipment, fire control lines, and the extinguishing of spot fires near or  
35 on the structure when safe and practical.

##### 36 *USFS Role*

37 As documented in a Forest Service doctrinal principle, “Agency employees  
38 respond when they come across situations where human life is immediately at  
39 risk or there is a clear emergency, and they are capable of assisting without  
40 undue risk to themselves or others.” This principle serves as a foundational basis  
41 for the roles employees play in structure protection.

1 Pursuant to this “structure protection” policy provided above, Forest Service  
2 personnel may engage support from other cooperators in structure protection  
3 activities when 1) requested by local government under terms of an approved  
4 cooperative agreement or 2) when operating within a unified command. The  
5 agency is permitted, without agreement, to render emergency assistance to a  
6 local government in suppressing wildland fires, and in preserving life and  
7 property from the threat of fire, when properly trained and equipped agency  
8 resources are the closest to the need, and there is adequate leadership to do so  
9 safely. The agency will NOT routinely provide primary emergency response  
10 (medical aids, fire suppression, HAZMAT, etc... as identified on “run cards” or  
11 preplanned dispatch scenarios) nor will the agency supplant the local  
12 government responsibility to do so.

13 The contents of a cooperative agreement will clearly define the responsibilities  
14 of partners. Regarding structural fire protection, typical Forest Service  
15 responsibilities in the case of mutual aid, initial attack, extended attack, or large  
16 fire support include:

- 17 • To provide initial attack through extended attack actions consistent with  
18 application of wildland fire strategy and tactics.
- 19 • To supply water in support of tribal, state or local agencies having  
20 jurisdictional responsibility for the fire. This would include the use of water  
21 tenders, portable pumps, hose, tanks, and supporting draft sites.
- 22 • To assist or supply foam or chemical suppressant capability with engines or  
23 aerial application.
- 24 • To assist local authorities in the event of evacuations.
- 25 • To assist local authorities by assessing (triaging) structures for defensibility  
26 from wildfire.
- 27 • To coordinate with local authorities on actions taken by Private Structure  
28 Protection Companies.

29 As such, there should not be an expectation that the Forest Service will:

- 30 • “Wrap” or set up and administer sprinklers around privately owned  
31 structures.
- 32 • Remove fuels immediately surrounding a structure such as brush,  
33 landscaping, or firewood.

34 As addressed above, the Forest Service will apply strategy and tactics to keep  
35 wildland fires from reaching structures, as prudent to do so, considering risk  
36 management for firefighters and publics, fire behavior, values at risk including  
37 natural resources, availability of firefighting resources, and jurisdictional  
38 authorities.

- 1 The Forest Service shall not:
- 2 • Take direct suppression actions on structures other than those that tactically
- 3 reduce the threat of fire spread to them.
- 4 • Enter structures or work on roofs of structures for the purpose of direct
- 5 suppression actions.
- 6 In consideration of Forest Service owned or leased structures outside of
- 7 structure fire protection areas these same policies apply. The use of Firewise
- 8 principles and aggressive fire prevention measures will be employed for Forest
- 9 Service structures at every opportunity.
- 10 If a Forest Service structure is determined to be at risk, "wrapping" or other
- 11 indirect protection methods for the structure can be authorized by the Agency
- 12 Administrator. Documentation of these decisions needs to be placed in the fire
- 13 documentation package and the unit files. Any employee engaged in "wrapping"
- 14 or other indirect methods of protection operations will be thoroughly briefed and
- 15 trained in correct safety and personal protection equipment procedures,
- 16 especially if the use of ladders or climbing on the structure is necessary. In any
- 17 case, the Forest Service holds that no structure is worth the risk of serious injury
- 18 to an employee in an attempt to protect that structure or facility from fire.
- 19 ***Local Government Role***
- 20 Local government has the responsibility for emergency response, including
- 21 structure protection, within their jurisdiction. This responsibility is usually found
- 22 within the fire agencies' charter and is substantiated by tax dollar revenue (sales
- 23 and/or property tax).
- 24 ***Cost***
- 25 Local governments assume the financial responsibility for emergency response
- 26 activities, including structure protection, within their jurisdictions. Local
- 27 government will order resources deemed necessary to protect structures within
- 28 their jurisdiction. Local agencies will not be reimbursed for performing their
- 29 responsibilities within their jurisdiction.
- 30 ***Tactical Operating Principles***
- 31 When engaging in structure protection activities, as defined above, Forest
- 32 Service personnel will apply the following principles:
- 33 • The first priority for all risk-decisions is human survival, both of firefighters
- 34 and the public.
- 35 • Incident containment strategies specifically address and integrate protection
- 36 of defensible improved property and wildland values.
- 37 • Direct protection of improved property is undertaken when it is safe to do
- 38 so, when there are sufficient time and appropriate resources available, and
- 39 when the action directly contributes to achieving overall incident objectives.
- 40 • Firefighter decision to accept direction to engage in structure protection
- 41 actions is based on the determination that the property is defensible and the

- 1 risk to firefighters can be safely mitigated under the current or potential fire  
2 conditions.
- 3 • A decision to delay or withdraw from structure protection operations is the  
4 appropriate course of action when made in consideration of firefighter  
5 safety, current or potential fire behavior, or defensibility of the structure or  
6 groups of structures.
- 7 • Firefighters at all levels are responsible to make risk-decisions appropriate  
8 to their individual knowledge, experience, training, and situational  
9 awareness.
- 10 • Every firefighter is responsible to be aware of the factors that affect their  
11 judgment and the decision-making process, including: a realistic perception  
12 of their own knowledge, skills, and abilities, the presence of life threat or  
13 structures, fire behavior, availability of resources, social/political pressures,  
14 mission focus, and personal distractions such as home, work, health, and  
15 fatigue.
- 16 • An individual's ability to assimilate all available factors affecting  
17 situational awareness is limited in a dynamic wildland urban interface fire  
18 environment. Every firefighter is responsible to understand and recognize  
19 these limitations, and to apply experience, training and personal judgment  
20 to observe, orient, decide, and act in preparation for the "worst case."
- 21 • It is the responsibility of every firefighter to participate in the flow of  
22 information with supervisors, subordinates, and peers. Clear and concise  
23 communication is essential to overcome limitations in situational  
24 awareness.  
25

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**Chapter 6  
Reserved**

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**EXHIBIT 7**

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## Chapter 7 Safety and Risk Management

### Introduction

The primary means by which we prevent accidents in wildland fire operations is through aggressive risk management. Our safety philosophy acknowledges that while the ideal level of risk may be zero, a hazard free work environment is not a reasonable or achievable goal in fire operations. Through organized, comprehensive, and systematic risk management, we will determine the acceptable level of risk that allows us to provide for safety yet still achieve fire operations objectives. Risk management is intended to minimize the number of injuries or fatalities experienced by wildland firefighters.

### Policy

Firefighter and public safety is our first priority. All Fire Management Plans and activities must reflect this commitment. The commitment to and accountability for safety is a joint responsibility of all firefighters, managers, and administrators. Every supervisor, employee, and volunteer is responsible for following safe work practices and procedures, as well as identifying and reporting unsafe conditions.

Agency-specific Safety Policy Documents:

- *BLM – BLM Handbook 1112-1, 1112-2*
- *FWS – Service Manual 240 FW 1 Safety Program Management, 241 FW7, Firefighting, 241 FW 4, Risk Management*
- *NPS – DO-50 and RM-50 Loss Control Management Guideline*
- *FS – FSM 5100 and chapters, FSH-6709.11 Health and Safety Code Handbook*

For additional safety guidance, refer to:

- *Wildland Fire Incident Management Field Guide (PMS 210)*
- *Incident Response Pocket Guide (IRPG) (PMS 461, NFES 1077)*

### Guiding Principles

The primary means by which we implement command decisions and maintain unity of action is through the use of common principles of operations. These principles guide our fundamental wildland fire management practices, behaviors, and customs, and are mutually understood at every level of command. They include Risk Management, Standard Firefighting Orders and Watch Out Situations, LCES and the Downhill Line Construction Checklist. These principles are fundamental to how we perform fire operations, and are intended to improve decision making and firefighter safety. They are not absolute rules. They require judgment in application.

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**1 Goal**

2 The goal of the fire safety program is to provide direction and guidance for safe  
3 and effective management in all activities. Safety is the responsibility of  
4 everyone assigned to wildland fire, and must be practiced at all operational  
5 levels from the national fire director, state/regional director, and unit manager to  
6 employees in the field. Agency Administrators need to stress that firefighter and  
7 public safety always takes precedence over property and resource loss.  
8 Coordination between the fire management staff and unit safety officer(s) is  
9 essential in achieving this objective.

**10 Definitions**

11 **Safety:** A measure of the degree of freedom from risk or conditions that can  
12 cause death, physical harm, or equipment or property damage.

13 **Hazard:** A condition or situation that exists within the working environment  
14 capable of causing physical harm, injury, or damage.

15 **Risk:** The likelihood or possibility of hazardous consequences in terms of  
16 severity or probability.

17 **Risk Management:** The process whereby management decisions are made and  
18 actions taken concerning control of hazards and acceptance of remaining risk.

**19 Risk Management Process**

20 Fire operations risk management is outlined in the *NWCG Incident Response*  
21 *Pocket Guide (IRPG)*. The five step process provides firefighters and fire  
22 managers a simple, universal, and consistent way to practice risk management  
23 by:

- 24 • Establishing situation awareness by identifying hazards.
- 25 • Assessing hazard potential.
- 26 • Developing hazard controls and making risk management decisions.
- 27 • Implementing hazard controls.
- 28 • Supervising implementation and evaluating effectiveness.

**29 Job Hazard Analysis (JHA)/Risk Assessment (RA)**

30 A completed JHA/RA is required for:

- 31 • Jobs or work practices that have potential hazards.
- 32 • New, non-routine, or hazardous tasks to be performed where potential  
33 hazards exist.
- 34 • Jobs that may require the employee to use non-standard personal protective  
35 equipment (PPE).
- 36 • Changes in equipment, work environment, conditions, policies, or materials.

- 1 • Supervisors and appropriate line managers must ensure that established
- 2 JHAs are reviewed and signed prior to any non-routine task or at the
- 3 beginning of the fire season.
- 4 ○ *BLM – Additional RA information can be obtained at:*
- 5 *<https://blmspace.blm.doi.net/wo/700/safetyhealthandemergency/SitePages/Risk%20Management.aspx>*
- 6
- 7 ○ *FWS – See also 240 FW 1, Exhibit 1, Job Hazard Assessment*
- 8 ○ *FS – JHAs must include a description of the emergency medical*
- 9 *procedures, identification of key individuals, and actions that will be*
- 10 *taken to ensure prompt and effective medical care and evacuation. See*
- 11 *FSH 6709.11, section 21.1 for more information.*

## 12 **Work/Rest**

13 To mitigate fatigue, Agency Administrators, fire managers, supervisors, Incident  
14 Commanders, and individual firefighters should plan for and ensure that all  
15 personnel are provided a minimum 2:1 work/rest ratio (for every 2 hours of  
16 work or travel, provide 1 hour of sleep and/or rest). Work shifts that exceed 16  
17 hours and/or consecutive days that do not meet the 2:1 work/rest ratio should be  
18 the exception. When this occurs, the following actions are required:

- 19 • Personnel will resume 2:1 work/rest ratio as quickly as possible.
- 20 • The Incident Commander or Agency Administrator will justify work shifts
- 21 that exceed 16 hours and/or consecutive days that do not meet 2:1 work to
- 22 rest ratio. Justification will be documented in the daily incident records, and
- 23 must include mitigation measures used to reduce fatigue.
- 24 • The Time Officer's/Unit Leader's approval of the Emergency Firefighter
- 25 Time Report (OF-288), or other agency pay document, certifies that the
- 26 required documentation is on file and no further documentation is required
- 27 for pay purposes.

28 The work/rest guidelines do not apply to aircraft pilots assigned to an incident.  
29 Pilots must abide by applicable Federal Aviation Administration (FAA)  
30 guidelines, or agency policy if more restrictive.

## 31 **Length of Assignment**

### 32 **Assignment Definition**

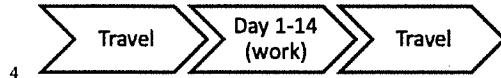
33 An assignment is defined as the time period (days) between the first full  
34 operational period at the first incident or reporting location on the original  
35 resource order and the last day worked prior to commencement of return travel  
36 to the home unit.

### 37 **Length of Assignment**

38 Standard assignment length is 14 days, exclusive of travel from and to home  
39 unit, with possible extensions identified below. Time spent in staging and

- 1 preposition status counts toward the 14-day limit, regardless of pay status, for all  
2 personnel, including Incident Management Teams.

3 14-Day Scenario



5 **Days Off**

- 6 To assist in mitigating fatigue, days off are allowed during and after  
7 assignments. Agency Administrators (incident host or home unit) may authorize  
8 time off supplementary to mandatory days off requirements.

- 9 The authority to grant a day off with pay lies within 5 U.S.C. 6104, 5 CFR  
10 610.301-306, and 56 Comp. Gen. Decision 393 (1977).

- 11 After completion of a 14-day assignment and return to the home unit, two  
12 mandatory days off will be provided (2 after 14). Days off must occur on the  
13 calendar days immediately following the return travel in order to be charged to  
14 the incident (See Section 12.1-2) (5 U.S.C. 6104, 5 CFR 610.301-306, and 56  
15 Comp. Gen. Decision 393 (1977). If the next day(s) upon return from an  
16 incident is/are a regular work day(s), a paid day(s) off will be authorized.  
17 Regulations may preclude authorizing this for non-NWCG and state/local  
18 employees.

- 19 Pay entitlement, including administrative leave, for a paid day(s) off cannot be  
20 authorized on the individual's regular day(s) off at their home unit. Agencies  
21 will apply holiday pay regulations, as appropriate. A paid day off is recorded on  
22 home unit time records according to agency requirements. Casuals (AD) are not  
23 entitled to paid day(s) off upon release from the incident or at their point of hire.

- 24 Contract resources are not entitled to paid day(s) off upon release from the  
25 incident or at their point of hire.

- 26 • *BLM/FWS – After completion of a 14-day assignment and return travel,*  
27 *the mandatory days off will be charged to Administrative Leave if they fall*  
28 *on a regularly-scheduled work day.*

- 29 Home unit Agency Administrators may authorize additional day(s) off with  
30 compensation to further mitigate fatigue. If authorized, home unit program funds  
31 will be used. All length of assignment rules apply to aviation resources,  
32 including aircraft pilots, notwithstanding the FAA and agency day off  
33 regulations.

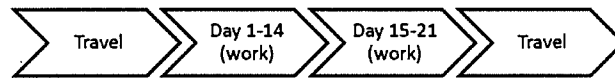
### 1 Assignment Extension

2 Prior to assigning incident personnel to back-to-back assignments, their health,  
3 readiness, and capability must be considered. The health and safety of incident  
4 personnel and resources will not be compromised under any circumstance.

- 5 • Assignments may be extended when:
  - 6 ○ Life and property are imminently threatened.
  - 7 ○ Suppression objectives are close to being met.
  - 8 ○ A military battalion is assigned.
  - 9 ○ Replacement resources are unavailable, or have not yet arrived.

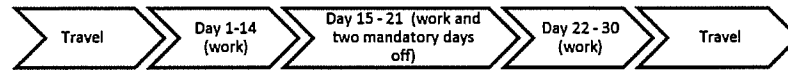
10 Upon completion of the standard 14-day assignment, an extension of up to an  
11 additional 14 days may be allowed (for a total of up to 30 days, inclusive of  
12 mandatory days off, and exclusive of travel).

### 13 21-Day Scenario



14  
15 A 21-day assignment is exclusive of travel from and to home unit. Time spent in  
16 staging and preposition status counts toward the 21-day assignment, regardless  
17 of pay status, for all personnel, including Incident Management Teams.

### 18 30-Day Scenario



19  
20 An assignment longer than 22 days is exclusive of travel from and to home unit.  
21 Time spent in staging and preposition status counts toward the assignment,  
22 regardless of pay status, for all personnel, including Incident Management  
23 Teams. For an assignment exceeding 21 days, two mandatory days off will be  
24 provided prior to the 22nd day of the assignment.

25 Contracts, Incident Blanket Purchase Agreements (I-BPA), and Emergency  
26 Equipment Rental Agreements (EERA) should be reviewed for appropriate pay  
27 requirements and length of assignment. If the contract, I-BPA, or EERA do not  
28 address this, the incident Finance/Administration Section Chief or the  
29 procurement official should be consulted as to whether compensation for a day  
30 off is appropriate.

### 31 Single Resource/Kind Extensions

32 The section chief or Incident Commander will identify the need for assignment  
33 extension and will obtain the affected resource's concurrence. The section chief

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1 and affected resource will acquire and document the home unit supervisor's  
2 approval.

3 The Incident Commander approves the extension. If a convened Geographic or  
4 National Multi-Agency Coordinating Group (GMAC/NMAC) directs, the  
5 Incident Commander approves only after GMAC/NMAC concurrence.

6 If the potential exists for reassignment to another incident during the extension,  
7 the home unit supervisor and the affected resource will be advised and must  
8 concur prior to reassignment.

9 **Incident Management Team Extensions**

10 Incident Management Team extensions are to be negotiated between the incident  
11 Agency Administrator, the Incident Commander, and the GMAC/NMAC (if  
12 directed).

13 **Maximum Consecutive Days Worked – Home Unit**

14 During extended periods of activity at the home unit, personnel will have a  
15 minimum of 1 day off in any 21-day period.

16 **Driving Standard**

17 All employees driving motor vehicles are responsible for the proper care,  
18 operation, maintenance, and protection of the vehicle, and to obey all federal  
19 and state laws.

20 The use of government-owned, rented, or leased motor vehicles is for official  
21 business only. Unauthorized use is prohibited.

22 **General Driving Policy**

- 23 • Employees must have a valid state driver's license in their possession for  
24 the appropriate vehicle class before operating the vehicle. Operating a  
25 government-owned or rental vehicle without a valid state driver's license is  
26 prohibited.
- 27 • All drivers whose job duties require the use of a motor vehicle will receive  
28 initial defensive driver training within three months of entering on duty and  
29 refresher driver training every three years thereafter.
  - 30 ○ *BLM/FS – Driver training is required prior to operating a vehicle for*  
31 *official purposes.*
- 32 • All traffic violations or parking tickets will be the operator's responsibility.
- 33 • All driving requiring a CDL will be performed in accordance with  
34 applicable Department of Transportation regulations.
- 35 • Drivers and all passengers are required to use provided seat belts at all times  
36 when the motor vehicle is in motion.

- 1 Employees operating a motor vehicle that meets any of the following criteria  
2 must possess a valid Commercial Driver's License (CDL) with all of the  
3 applicable endorsements:
- 4 • Has a gross combination weight rating or gross combination weight of  
5 26,001 pounds or more, whichever is greater, inclusive of a towed unit(s)  
6 with a gross vehicle weight rating or gross vehicle weight of more than  
7 10,000 pounds, whichever is greater; or
  - 8 • Has a gross vehicle weight rating or gross vehicle weight of 26,001 pounds  
9 or more, whichever is greater; or
  - 10 • Is designed to transport 16 or more passengers, including the driver; or
  - 11 • Is of any size and is used in the transportation of hazardous materials.  
12 Hazardous materials means any material that has been designated as  
13 hazardous under 49 U.S.C. 5103 and is required to be placarded under  
14 subpart F of 49 CFR part 172 or any quantity of a material listed as a select  
15 agent or toxin in 42 CFR part 73.
  - 16 ○ *BLM – BLM Form 1112-11 will be used to document every fire and*  
17 *aviation employee's authorization to drive government vehicles or to*  
18 *drive private or rental vehicles for government business. BLM Form*  
19 *1112-11 replaces form OF-345, form DI-131, and any equivalent form*  
20 *that has been created for local or state level use. Employees are*  
21 *required to self-certify their physical ability to operate vehicles which*  
22 *they are authorized to use. Drivers of vehicles that require a*  
23 *Commercial Driver's License may be required to have additional*  
24 *driver, medical, and fitness testing as required by local and/or state*  
25 *laws. Employees will immediately inform their supervisor and update*  
26 *BLM Form 1112-11 if a change in medical condition impedes their*  
27 *driving ability or if a state driving privilege is restricted for any*  
28 *reason. Supervisors will review the updated form and take appropriate*  
29 *action as necessary. BLM Form 1112-11 is available at:*  
30 *[https://blmspace.blm.doi.net/oc/intra/dbs/eForms%20Library/Forms/S](https://blmspace.blm.doi.net/oc/intra/dbs/eForms%20Library/Forms/Safety.aspx)*  
31 *afety.aspx.*
  - 32 ○ *FS – Policy requires all operators of government owned, or leased*  
33 *vehicles to have a Forest Service issued Operator's Identification Card*  
34 *(OF-346) indicating the type of vehicles or equipment the holder is*  
35 *authorized and qualified to operate.*
  - 36 ○ *BLM/NPS/FWS – The DOI has granted wildland fire agencies a*  
37 *variance from 485 DM 16 policy that requires operators of commercial*  
38 *vehicles to be at least 21 years of age. The variance allows employees*  
39 *between the ages of 18 and 21 obtain and utilize a CDL (subject to*  
40 *state law) to operate agency fire vehicles under the specific conditions*  
41 *as stated below:*
    - 42 ■ *Drivers with a CDL may only drive within the state that has issued*  
43 *the CDL and must comply with that state's special requirements*  
44 *and endorsements.*

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- 1       ▪ *These drivers must only drive vehicles that are equipped with*  
2       *visible and audible signals, and are easily recognized as*  
3       *firefighting equipment. This excludes, but is not limited to, school*  
4       *buses used for crew transport and "low-boy" tractor trailers used*  
5       *for construction equipment transport.*
- 6       ▪ *Supervisors must annually establish and document that these*  
7       *drivers have a valid license (i.e., that the license has not been*  
8       *suspended, revoked, canceled, or that the employee has not been*  
9       *otherwise disqualified from holding a license - 485 DM 16.3.B (1),*  
10       *ensure that the employee has the ability to operate the vehicle(s)*  
11       *safely in the operational environment assigned (485 DM 16.3.B*  
12       *(2), and review and validate the employee's driving record (485*  
13       *DM 16.3.B(4)).*
- 14       ○ *NPS – For NPS employees engaged in activities other than wildfire or*  
15       *prescribed fire, refer to the current NPS Official Travel Driving Policy*  
16       *for restrictions.*
- 17       ○ *BLM/NPS/FWS – Employees, volunteers, and contractors (for BLM,*  
18       *this includes cooperators) are prohibited from using any mobile*  
19       *voice/data communication or electronic data retrieval device while*  
20       *operating a government owned, leased, or rented vehicle or while*  
21       *operating a personally-owned vehicle for official government business,*  
22       *and are further prohibited from using any government-owned mobile*  
23       *communication or data retrieval device while operating a personally-*  
24       *owned vehicle. Government purchased two-way radios are exempt from*  
25       *this requirement. The use of any of these devices during an emergency*  
26       *situation (immediate threat to life) is limited to the extent necessary to*  
27       *convey vital information. When there is a passenger in the vehicle and*  
28       *the vehicle is in motion, the passenger shall manage communications to*  
29       *prevent driver distraction.*
- 30       ○ *FS – Drivers shall not engage in cellular phone or mobile radio*  
31       *communications while the vehicle is in motion unless actively engaged*  
32       *in an emergency such as wildland firefighting. During non-emergency*  
33       *situations, the driver shall identify a safe location to stop the vehicle*  
34       *and then engage in cellular phone or mobile radio communications.*  
35       *These restrictions apply whether or not hands-free technology is*  
36       *available.*

### 37 **Non-Incident Operations Driving**

38 Refer to the current driving standards for each individual agency.

### 39 **Mobilization and Demobilization**

40 To manage fatigue, every effort should be made to avoid off unit (excluding IA  
41 response) mobilization and demobilization travel between 2200 hours and 0500  
42 hours.

**1 Incident Operations Driving**

- 2 This policy addresses driving by personnel actively engaged in wildland fire or  
3 all-hazard activities; this includes driving while in support, mobilization, and  
4 demobilization to an assigned incident, or during initial attack fire response  
5 (includes time required to control the fire and travel to a rest location).
- 6 • Agency resources assigned to an incident or engaged in initial attack fire  
7 response will adhere to the current agency work/rest policy for determining  
8 length of duty day.
  - 9 • No driver will drive more than 10 hours (behind the wheel) within any duty-  
10 day.
  - 11 • Multiple drivers in a single vehicle may drive up to the duty-day limitation  
12 provided no driver exceeds the individual driving (behind the wheel) time  
13 limitation of 10 hours.
  - 14 • A driver shall drive only if they have had at least 8 consecutive hours off  
15 duty before beginning a shift. Exception to the minimum off-duty hour  
16 requirement is allowed when essential to:
    - 17 ○ Accomplish immediate and critical suppression objectives.
    - 18 ○ Address immediate and critical firefighter or public safety issues.
  - 19 • As stated in the current agency work/rest policy, documentation of  
20 mitigation measures used to reduce fatigue is required for drivers who  
21 exceed 16 hour work shifts. This is required regardless of whether the driver  
22 was still compliant with the 10 hour individual (behind the wheel) driving  
23 time limitations.

**24 Fire Vehicle Operation Standards**

- 25 Operators of all vehicles must abide by state traffic regulations. Operation of all  
26 vehicles will be conducted within the limits specified by the manufacturer.  
27 Limitations based on tire maximum speed ratings and GVWR restrictions must  
28 be followed. It is the vehicle operator's responsibility to ensure vehicles abide  
29 by these and any other limitations specified by agency or state regulations.

**30 Management Controls to Mitigate Exposure**

- 31 Management controls, engineering controls, equipment guards, and  
32 administrative procedures are the first line of defense against exposing an  
33 employee to a hazard. Personal Protective Equipment (PPE) will be used to  
34 protect employees against hazards that exist after all management controls are  
35 exhausted.

**36 Wildland Fire Field Attire**

- 37 Polyester, polypropylene, and nylon materials are not to be worn, because most  
38 synthetic fibers melt when exposed to flame or extreme radiant heat. Personnel  
39 should wear only undergarments made of 100 percent or the highest possible  
40 content of natural fibers, aramid, or other flame-resistant materials.

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**1 Personal Protective Equipment (PPE)**

- 2 All personnel are required to use Personal Protective Equipment (PPE)  
3 appropriate for their duties and/or as identified in JHAs/RAs. Employees must  
4 be trained to use safety equipment effectively.
- 5 Flame resistant clothing should be cleaned or replaced whenever soiled,  
6 especially when soiled with petroleum products. Flame resistant clothing will be  
7 replaced when the fabric is so worn as to reduce the protection capability of the  
8 garment or is so faded as to significantly reduce the desired visibility qualities.
- 9 Any modification to Personal Protective Equipment that reduces its protection  
10 capability such as iron-on logos, and sagging of pants, is an unacceptable  
11 practice and will not be allowed on fires.

**12 Required Fireline PPE**

- 13 • Wildland fire boots
- 14 • Fire shelter (M-2002)
- 15 • Hard hat with chinstrap
- 16 • Goggles/safety glasses (as identified by JHAs/RAs)
- 17 • Ear plugs/hearing protection
- 18 • National Fire Protection Association (NFPA) 1977 compliant long-sleeved  
19 flame resistant shirt
- 20 • NFPA 1977 compliant flame resistant trousers
- 21 • Leather or leather/flame resistant combination gloves. Flight gloves are not  
22 approved for fireline use.
- 23 • Additional PPE as identified by local conditions, material safety data sheet  
24 (MSDS), or JHA/RA
  - 25 ○ *FS – Shirt, trousers, and gloves used by USFS personnel must meet*  
26 *Forest Service specification 5100-91 (shirt), 5100-92 (trousers), 6170-*  
27 *5 (gloves), or be NFPA 1977 compliant.*

**28 Wildland Fire Boot Standard**

- 29 Personnel assigned to wildland fires must wear a minimum of 8-inch high, lace-  
30 type exterior leather work boots with lug melt-resistant soles. The 8-inch height  
31 requirement is measured from the bottom of the heel to the top of the boot.  
32 Alaska is exempt from the lug sole requirement.
- 33 All boots that meet the wildland fire boot standard as described above are  
34 required for firefighting and fireline visits, considered non-specialized PPE, and  
35 will be purchased by the employee (including AD/EFF) prior to employment.
- 36 The agencies have authorized payment of a boot stipend. See agency specific  
37 guidance for implementation.

**1 Fire Shelters**

2 New Generation Fire Shelters (M-2002, Forest Service Specification 5100-606)  
3 are required for all wildland firefighters. For more information, refer to  
4 [http://www.nifc.gov/fireShelt/fshelt\\_main.html](http://www.nifc.gov/fireShelt/fshelt_main.html).

5 Training in inspection and deployment of New Generation Fire Shelters will be  
6 provided prior to issuance. Firefighters will inspect their fire shelters at the  
7 beginning of each fire season and periodically throughout the year, to ensure  
8 they are serviceable.

9 Training shelters will be deployed at required Annual Fireline Safety Refresher  
10 Training. No live fire exercises for the purpose of fire shelter deployment  
11 training will be conducted.

12 Fire shelters will be carried in a readily accessible manner by all line personnel.  
13 The deployment of shelters will not be used as a tactical tool. Supervisors and  
14 firefighters must never rely on fire shelters instead of using well-defined escape  
15 routes and safety zones. When deployed on a fire, fire shelters will be left in  
16 place if it is safe to do so and not be removed pending approval of authorized  
17 investigators. Firefighters must report the shelter deployment incident to their  
18 supervisor as soon as possible.

**19 Head Protection**

20 Personnel must be equipped with hardhats and wear them at all times while in  
21 the fire area. Hardhats must be equipped with a chinstrap, which must be  
22 fastened while riding in, or in the vicinity of, helicopters. Acceptable hardhats  
23 for fireline use must meet *NFPA 1977 Standard on Protective Clothing and*  
24 *Equipment for Wildland Fire Fighting* requirements.

25 Hardhats consist of two components, the shell and the suspension, which work  
26 together as a system. Both components require periodic inspection and  
27 maintenance. To ensure serviceable hardhats are worn, follow the current  
28 guidelines found in:

- 29 • The 2011 National Fire Equipment System (NFES) Cache Memorandum  
30 No. 11-01, "*Helmet, Safety (NFES 000109), Service Life and*  
31 *Refurbishment Guidelines*" at  
32 [http://www.nifc.gov/nicc/logistics/cachememo/CM2011-1\\_Hard\\_Hat.pdf](http://www.nifc.gov/nicc/logistics/cachememo/CM2011-1_Hard_Hat.pdf).
- 33 • The 2002 National Technology and Development Program (T&D) Tech  
34 Tip, *Your Hardhat: Inspection and Maintenance* (0267-2331-MTDC) at  
35 <http://www.fs.fed.us/t-d/pubs/pdfpubs/pdf02672331/pdf02672331dpi300.pdf>.

36 Both documents provide important information; however, the 2011 National  
37 Fire Equipment System (NFES) Cache Memorandum No. 11-01 takes  
38 precedence over any older guidance in the T&D Tech Tip.

**1 Eye and Face Protection**

2 The following positions require the wearing of eye protection (meets *ANSI*  
3 *Z87.1* Standards):

- 4 • Nozzle operator
- 5 • Chainsaw operator/faller
- 6 • Helibase and ramp personnel
- 7 • Wildland fire chemical mixing personnel
- 8 • Other duties may require eye protection as identified in a specific JHA/RA

9 Full face protection in the form of a face shield in compliance with *ANSI Z87.1*  
10 shall be worn when working in any position where face protection has been  
11 identified as required in the job-specific JHA/RA: Batch Mixing for Terra-  
12 Torch®, power sharpener operators, etc.

**13 Hearing Protection**

14 Personnel who are exposed to a noise level in excess of 85db must be provided  
15 with, and wear, hearing protection. This includes, but is not limited to:

- 16 • Chainsaw operators/fallers
- 17 • Pump operators
- 18 • Helibase and aircraft ramp personnel
- 19 • Wildland fire chemical mixing personnel

20 Other duties may require hearing protection as identified in a specific JHA/RA.

21 Employees may be required to be placed under a hearing conservation program  
22 as required by *29 CFR 1910.95*. Consult with local safety and health personnel  
23 for specifics regarding unit hearing conservation programs.

**24 Neck Protection**

25 Face and neck shrouds are not required PPE. The use of shrouds is not required  
26 and should be as a result of onsite risk analysis. If used, face and neck shrouds  
27 shall meet the requirements of FS specification 5100-601 or *NFPA 1977*  
28 *Standard on Protective Clothing and Equipment for Wildland Fire Fighting*.

29 Shrouds should be positioned in a manner that allows for immediate use. For  
30 additional information see MTDC Tech Tip *Improved Face and Neck Shroud*  
31 *for Wildland Firefighters, 2004* (0451-2323-MTDC) at  
32 <http://www.fs.fed.us/t-d/pubs/htmlpubs/htm04512323/index.htm>.

**33 Leg Protection**

34 All chainsaw operators will wear chainsaw chaps meeting the United States  
35 Forest Service Specification 6170-4F or 4G. Swampers should wear chaps when  
36 the need is demonstrated by a risk analysis considering proximity to the sawyer,  
37 slope, fuel type, etc. All previous Forest Service specification chainsaw chaps  
38 must be removed from service. Chainsaw chaps shall be maintained in  
39 accordance with MTDC Publication, *Inspecting and Repairing Your Chainsaw*

- 1 *Chaps – User Instructions (0567-2816-MTDC) available at*  
2 <http://www.fs.fed.us/t-d/pubs/htmlpubs/htm05672816/page01.htm>.

3 **Respiratory Protection**

4 Respiratory protection should only be implemented once engineering and  
5 administrative controls are exhausted. The need for respiratory protection during  
6 wildland fire operations must be determined by each agency. The requirements  
7 for respirator use are found in *29 CFR Part 1910.134*.

8 Only NIOSH-approved respirators shall be used. Several respiratory-type  
9 products are marketed to wildland firefighters but are not NIOSH-approved  
10 (e.g., shrouds with filtration devices).

11 Managers and supervisors will not knowingly place wildland firefighters in  
12 positions where exposure to toxic gases or chemicals that cannot be mitigated  
13 and would require the use of self-contained breathing apparatus.

14 Managers will not sign cooperative fire protection agreements that would  
15 commit wildland firefighters to situations where exposure to toxic gases or  
16 chemicals would require the use of self-contained breathing apparatus.

- 17 • *FS – FSM 5130, Self-Contained Breathing Apparatus – Wildland*  
18 *firefighters may use only SCBA which are compliant with NFPA 1981,*  
19 *Standard on Open-Circuit Self-Contained Breathing Apparatus (SCBA) for*  
20 *Emergency Services. SCBA may only be used when contaminants from*  
21 *vehicle, dump, structure, or other non-wildland fuel fire cannot be avoided*  
22 *while meeting wildland fire suppression objectives (29 CFR 1910.134,*  
23 *Respiratory Protection). If such an apparatus is not available, avoid*  
24 *exposure to smoke from these sources. The acquisition, training, proper*  
25 *use, employee health surveillance programs, inspection, storage, and*  
26 *maintenance of respiratory protection equipment must comply with*  
27 *applicable National Fire Protection Association standards and 29 CFR*  
28 *1910.134, and be justified by a Job Hazard Analysis. Where the acquisition*  
29 *and use of an SCBA is approved, it may be carried only on a fire engine and*  
30 *its use must be consistent with FSM 5130.*

31 **Specialized or Non-Standard Personal Protective Equipment (PPE)**

32 Specialized PPE not routinely supplied by the agency (e.g., prescription safety  
33 glasses, static-resistant clothing, cold weather flame resistant outerwear, etc.)  
34 required to perform a task safely must be procured in accordance with agency  
35 direction, and supported by a JHA/Risk Assessment.

36 A JHA/Risk Assessment must be completed and reviewed by the Unit Safety  
37 Officer and the supervisor's approval is required. Items must meet agency and  
38 industry standards for specific intended use. Cold weather flame resistant  
39 outerwear shall be in compliance with NFPA 1977, *Standard on Protective*  
40 *Clothing and Equipment for Wildland Fire Fighting*. All cold weather inner

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- 1 wear should be composed of 100% or the highest possible content of natural  
2 fibers (cotton, wool or silk) or other flame resistant material such as aramid.
- 3 **High Visibility Vests**  
4 In order to meet 23 *CFR* 634, high visibility apparel should be worn whenever a  
5 firefighter is working on or in the right of way of a public roadway.
- 6 Employees must wear high visibility safety apparel that meets ANSI/ISEA 107-  
7 2004, Class 2 or 3, or ANSI/ISEA 207-2006.
- 8 **Exceptions**  
9 The high visibility safety apparel should not be worn if:  
10 • There is a reasonable chance that the employee may be exposed to flames,  
11 high heat, or hazardous materials.  
12 • The high visibility garment hinders an employee's ability to do their job  
13 because it prevents necessary motion or because it limits access to  
14 necessary equipment such as radios or fire shelters.
- 15 Additional information is available in the Missoula Technology and  
16 Development Center (MTDC) report, *High-Visibility Garments and Worker*  
17 *Safety on Roadways* (1251-2818P-MTDC) at  
18 <http://www.fs.fed.us/t-d/pubs/htmlpubs/html12512818/>.
- 19 **Fireline Safety**
- 20 **Incident Briefings**  
21 Fire managers must ensure that safety briefings are occurring throughout the fire  
22 organization, and that safety factors are addressed through the IC or their  
23 designee and communicated to all incident personnel at operational briefings.  
24 The identification and location of escape routes and safety zones must be  
25 stressed. A briefing checklist can be found in the *Incident Response Pocket*  
26 *Guide (IRPG)*.
- 27 **LCES – A System for Operational Safety**  
28 LCES will be used in all operational briefings and tactical operations as per the  
29 *Incident Response Pocket Guide (IRPG)*.  
30 • L - Lookout(s)  
31 • C - Communication(s)  
32 • E - Escape Route(s)  
33 • S - Safety Zone(s)
- 34 **Right to Refuse Risk**  
35 Every individual has the right to turn down unsafe assignments. When an  
36 individual feels an assignment is unsafe, they also have the obligation to  
37 identify, to the degree possible, safety alternatives for completing that  
38 assignment. The IRPG contains a process for properly refusing risk.

**1 Smoke and Carbon Monoxide**

2 It is important to note that smoke is just one of the potential risks faced by  
3 wildland firefighters. Site-specific hazards and mitigations need to be identified  
4 (using JHA/RA) to reduce firefighter exposure to smoke and potential carbon  
5 monoxide which includes evaluating and balancing all the risks associated with  
6 the operational objectives.

7 From an incident management perspective, smoke impacts need to be analyzed  
8 and a risk assessment completed using the ICS-215A, Incident Action Plan  
9 Safety Analysis worksheet. For additional information, reference NWCG  
10 memorandum EB-M-12-006, *Monitoring and Mitigating Exposure to Carbon*  
11 *Monoxide and Particulates at Incident Base Camps* at  
12 <http://www.nwcg.gov/executive-board/correspondence>.

**13 Location of Fire Camps and Plans to Remain in Place**

14 Fire camps should be located in areas that will service the incident for the long  
15 term without having to relocate. Due to such factors as extreme fire behavior,  
16 fire camp locations might be compromised. Incident Commanders are to be  
17 especially vigilant to quickly identify situations that may put their fire camp(s)  
18 or any other adjacent fire camps in jeopardy. As such, planning for evacuation  
19 and/ or remain in place actions should be considered. Evacuation plans at a  
20 minimum shall include:

- 21 • Documented risk assessment
- 22 • Trigger points
- 23 • Egress routes
- 24 • Transportation for all personnel
- 25 • Accountability for all personnel
- 26 • Those individuals not meeting 310-1 qualifications will be considered  
27 escorted visitors as addressed elsewhere in this chapter.
  - 28 ○ *FS – At a minimum, plans shall also include:*
    - 29 ▪ *ICP protection strategy referenced in the IAP.*
    - 30 ▪ *Live-ability considerations including air quality, functionality of*  
31 *location and facilities, and safety factors for post burn conditions.*

**32 Standard Safety Flagging**

33 The NWCG recommends the following Safety Zone/Escape Route flagging for  
34 wildland fire activities:

- 35 • Hot-pink flagging marked “Escape Route” (NFES 0566). Crews with  
36 colorblind members may wish to carry and utilize fluorescent chartreuse  
37 flagging (NFES 2396).
- 38 • Hazards. Yellow with black diagonal stripes, 1 inch wide (NFES 0267). If  
39 the above recommendation is not utilized on an incident, the incident will  
40 need to identify the selected color and make it known to all firefighters.

**1 Emergency Medical Planning and Services**

2 To provide for quick and effective response, all units (including dispatch  
3 centers) will develop and implement plans that specify emergency procedures,  
4 actions, and roles/responsibilities to ensure injured personnel are provided  
5 prompt and effective medical care and evacuation.

**6 Incident Medical Emergency Management Planning**

7 In 2010, NWCG approved the standardized incident emergency protocol  
8 developed by the Dutch Creek Serious Accident Task Team, and issued  
9 direction that these emergency medical procedures be adopted by all IMTs  
10 during daily operations.

11 Although some of the procedures are specific to larger Type 1 and Type 2  
12 incidents when key unit leader positions are filled, these same procedures and  
13 protocols can be adapted for local unit use when managing Type 5, 4, and 3  
14 incidents as well as during normal field operations. Local unit emergency  
15 medical plans must take into account all types and management levels of  
16 incidents.

17 To achieve successful medical response, Agency Administrators will ensure that  
18 their units have completed the following items prior to each field season:

- 19 • A Medical Emergency Plan that identifies medical evacuation options,  
20 local/county/state/federal resource capabilities, capacities, ordering  
21 procedures, cooperative agreements, role of dispatch centers, and key  
22 contacts or liaisons.
- 23 • Standardized incident and communication center protocols identified in the  
24 Medical Incident Report section of the IRPG.
- 25 • For incidents that require the preparation of an IAP, Form ICS-206-WF will  
26 be used. This form is available at  
27 <http://www.nwcg.gov/publications/ics-forms>.

28 For more information, refer to NWCG memorandum EB-M-14-001 at  
29 <http://www.nwcg.gov/executive-board/correspondence>.

**30 Air Ambulance Coordination**

31 Unit and state/regional-level fire program managers should ensure that  
32 procedures, processes, and/or agreements for use of local and regional air  
33 ambulance services are stated in writing and effectively coordinated between the  
34 fire programs, the dispatch/logistics centers, and the service providers. These  
35 procedures, processes, and/or agreements should address contact frequencies,  
36 coordinate format requirements, and capabilities/limitations of the air ambulance  
37 (e.g., night flying, unimproved helispots, weather restrictions).

**1 Incident Emergency Medical Services**

2 Agencies will follow interim NWCG minimum standards for incident  
3 emergency medical services as defined in Appendix K (NWCG#011-2208) to  
4 assist wildland fire Incident Commanders with determining the level and  
5 number of emergency medical resources and related supplies needed based upon  
6 the number of incident personnel. This standard as well as other incident  
7 medical information can be found on the NWCG Incident Emergency Medical  
8 Subcommittee website at [http://www.nwcg.gov/committees/incident-](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides)  
9 [emergency-medical-subcommittee/incident-emergency-medical-subcommittee-](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides)  
10 [policy-and-guides](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides).

11 Incidents that have established Medical Units shall follow the direction as  
12 outlined in *Interim NWCG Minimum Standards for Medical Units Managed By*  
13 *NWCG Member Agencies* at [http://www.nwcg.gov/committees/incident-](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides)  
14 [emergency-medical-subcommittee/incident-emergency-medical-subcommittee-](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides)  
15 [policy-and-guides](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides).

16 NWCG has published *Clinical Treatment Guidelines for Wildland Fire Medical*  
17 *Units* (PMS 551). These guidelines establish a national approach for medical  
18 care during large incidents that expand the typical emergency management  
19 services (EMS) scope of practice to include the mission of managing and  
20 maintaining the health and wellness of wildland fire personnel. These guidelines  
21 are available at [http://www.nwcg.gov/committees/incident-emergency-medical-](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides)  
22 [subcommittee/incident-emergency-medical-subcommittee-policy-and-guides](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides).

23 Home units that choose to utilize and support higher level medical responders to  
24 provide medical support for internal agency medical emergencies (beyond basic  
25 first aid/CPR) may do so; however, certification and credentialing must follow  
26 respective state laws and protocols.

**27 Required Treatment for Burn Injuries**

28 The following standards will be used when any firefighter sustains burn injuries,  
29 regardless of agency jurisdiction.

30 After on-site medical response, initial medical stabilization, and evaluation are  
31 completed, the Agency Administrator or designee having jurisdiction for the  
32 incident and/or firefighter representative (e.g., Crew Boss, Medical Unit Leader,  
33 Compensations for Injury Specialist, etc.) should discuss and coordinate with the  
34 attending physician to ensure that a firefighter whose burn injuries meet any of  
35 the following burn injury criteria is appropriately referred to the nearest regional  
36 burn center. Burn injuries are often difficult to evaluate and may take 72 hours  
37 to manifest themselves. When there is any doubt as to the severity of or if  
38 criteria are met for a burn injury, the recommended action is to work closely  
39 with the treating physician to facilitate either a digital picture or telemedicine  
40 consult with a burn center or the referral and transport of the burned employee to

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1 the nearest burn center. It should be kept in mind, however, that not all burns  
2 require referral to a burn center. The following criteria from the American Burn  
3 Association (ABA) are meant to help guide the patient referral decision process.

4 The decision to refer a firefighter not meeting the following criteria to a regional  
5 burn center is made directly by the attending physician or may be requested of  
6 the physician by the Agency Administrator or designee having jurisdiction  
7 and/or firefighter representative after discussing medical follow-up beyond the  
8 ER. A possible solution is a referral to a burn center out-patient clinic for  
9 follow-up care after the ER visit.

10 After initial medical stabilization and evaluation are completed in a medical  
11 facility, the decision to refer the employee to a specialty care physician/facility  
12 is made only by the attending physician. Workers Compensation benefits may  
13 be denied in the event the employee is transported to a specialty care  
14 physician/facility without a referral from the attending physician after already  
15 being seen by a medical provider. A report prepared by a Physicians' Assistant  
16 must be countersigned by a physician to be accepted as medical evidence. A  
17 definition of "physician" can be found at  
18 <http://www.dol.gov/owcp/dfec/regs/compliance/DFECfolio/FECA-PT3/#30100>.

19 The Agency Administrator or designee for the incident will coordinate with the  
20 employee's home unit to identify a workers compensation liaison to assist the  
21 injured employee with workers compensation claims and procedures.

22 During these rare events, close consultation must occur between the attending  
23 physician, the firefighter, the Agency Administrator or designee and/or  
24 firefighter representative, the firefighter's physician (if they have one), and the  
25 burn center to assure that the best possible care for the burn injuries is provided.

#### 26 **ABA Burn Injury Criteria**

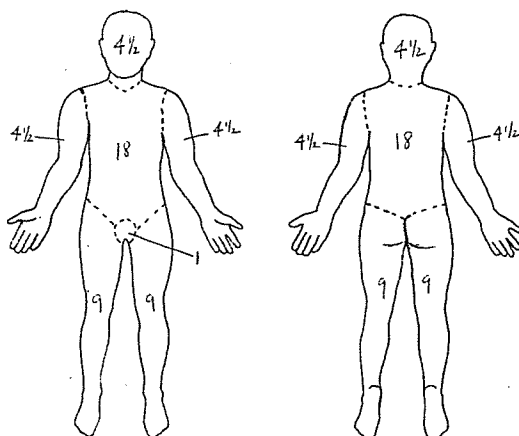
- 27 • Partial thickness burns (second degree) involving greater than 10% Total  
28 Body Surface Area (TBSA).
- 29 • Burns (second degree) involving the face, hands, foot, genitalia, perineum,  
30 or major joints.
- 31 • Third-degree burns of any size are present.
- 32 • Electrical burns, including lightning injury, or chemical burns are present.
- 33 • Inhalation injury is suspected.
- 34 • Burn injury in someone with preexisting medical disorders that could  
35 complicate management, prolong recovery or affect mortality (e.g.,  
36 diabetes).
- 37 • Any patient with burns and concomitant trauma (such as fractures) in which  
38 the burn injury poses the greatest risk of morbidity or mortality. In such  
39 cases, if the trauma poses the greater immediate risk, the patient may be  
40 initially stabilized in a trauma center before being transferred to a burn unit.

- 1 Physician judgment will be necessary in such situations and should be in  
2 concert with the regional medical control plan and triage protocols.

3 **Severity Determination**

- 4 • **First Degree** (Superficial) Red, sometimes painful.  
5 • **Second Degree** (Partial Thickness) Skin may be red, blistered, swollen,  
6 painful to very painful.  
7 • **Third Degree** (Full Thickness) Whitish, charred, or translucent, no pin  
8 prick sensation in burned area.

9 **Percentage Total Body Surface Area (TBSA)**



- 10 A list of burn care facilities can be found at  
11 <http://www.ameriburn.org/BCRDPublic.pdf>.  
12 For additional NWCG incident emergency medical information see  
13 [http://www.nwcg.gov/committees/incident-emergency-medical-](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides)  
14 [subcommittee/incident-emergency-medical-subcommittee-policy-and-guides](http://www.nwcg.gov/committees/incident-emergency-medical-subcommittee/incident-emergency-medical-subcommittee-policy-and-guides).  
15 **Explosives, Munitions, and Unexploded Ordinance**  
16 When encountering explosives, munitions, unexploded ordinance (UXO), or  
17 suspected UXO, never pick up, handle, uncover, or touch suspected explosives  
18 or military munitions. Retreat and secure the area from entry. Immediately  
19 notify the local dispatch office, and gather as much information as possible from  
20 a safe distance.

- 1 Gather the following information and provide it to the dispatch center:
- 2 • Location of the explosive/munitions using a map, GPS coordinates, or
- 3 landmarks (use of a GPS receiver is acceptable because it is a receive-only
- 4 device).
- 5 • Picture of the explosive if it can be obtained from a safe distance.
- 6 • Who discovered the explosive/munitions and how they can be contacted.
- 7 • Condition of the explosive/munitions (e.g., buried, partially exposed, fully
- 8 exposed, deteriorated, or punctured).
- 9 • Number and type of explosive/munitions visible (e.g., blasting caps,
- 10 dynamite, bomb, grenade, etc.).
- 11 • Estimated size of explosive/munitions (e.g., length and diameter).
- 12 • Distinctive features of explosive/munitions (e.g., shape, color, markings).
- 13 • Nearby structures, if any (so inhabitants can be contacted and evacuated if
- 14 necessary).
- 15 • Public access to the vicinity (i.e., open or closed to motor vehicles).
- 16 Never spend more time near munitions, suspected explosives, or UXO than is
- 17 absolutely necessary. Only collect the above information as long as it is safe to
- 18 do so from a distance. Never compromise safety to collect information.
- 19 **Notifications**
- 20 Local dispatch centers are responsible for notifying:
- 21 • Agency law enforcement;
- 22 • Unit safety officer;
- 23 • Agency Administrator; and
- 24 • Local law enforcement.
- 25 **Discovery of Explosives/Munitions/UXO Associated with Former Defense**
- 26 **Sites**
- 27 The military retains liability and responsibility for munitions removal and for
- 28 remedial actions on all lands transferred (or transferring) from the military to the
- 29 land management agencies, and is responsible for explosives safety at former
- 30 defense sites. The military must be notified for all UXO on these lands.
- 31 Local law enforcement is responsible for contacting the appropriate military
- 32 authority. If the responsible military unit is unknown, then local law
- 33 enforcement should contact the U.S. Army Forces Command (FORSCOM),
- 34 52nd Ordnance Group (EOD), at its 24-hour emergency response number, (931)
- 35 431-3824.
- 36 For additional UXO safety information, see the current IRPG.

**1 Industrial and Naturally Occurring Hazardous Materials Exposure**

2 Firefighters can potentially be exposed to hazards in the wildland fire  
3 environment. Encountered hazards can be both human and environmentally  
4 borne.

5 This section provides information and mitigations for most commonly  
6 encountered industrial and naturally occurring potential exposures. Recognizing  
7 there may be unique/area specific hazardous exposures (e.g., fungus causing  
8 valley fever, erionite, coal seams), the following standards apply to all hazards:

- 9 • Identifying unit-specific environmental hazards;
- 10 • Develop Risk Assessments/Job Hazard Analyses (RA/JHAs) for those  
11 hazards;
- 12 • Develop and provide specific training and standard operating procedures  
13 (SOPs);
- 14 • Provide briefings/training for those who may be exposed;
- 15 • If exposure is suspected, immediately disengage and leave the area; and
- 16 • Seek immediate medical attention if exposure symptoms occur.

**17 Hazardous Materials Response**

18 Hazardous materials response or control is not a functional responsibility of  
19 wildland fire suppression resources. These incidents have tremendous potential  
20 to cause significant health and life safety issues. In order to protect the health  
21 and safety of agency personnel, no employee shall be directed, or dispatched  
22 (including self-dispatching) to an incident involving hazardous materials unless  
23 they are provided with the required personal protective equipment and the  
24 appropriate certification level. Agency personnel on incidents involving  
25 hazardous material will limit their actions to those emergency services necessary  
26 for the immediate protection of themselves and the public and the prompt  
27 notification of appropriate public safety agencies. All wildland firefighters who  
28 are likely to witness or discover hazardous substances are required to complete  
29 their agency's First Responder Awareness (Level I) program.

**30 Dump and Spill Sites**

31 Employees that discover any unauthorized waste dump or spill site that contains  
32 indicators of potential hazardous substances (e.g., containers of unknown  
33 substances, pools of unidentifiable liquids, piles of unknown solid materials,  
34 unusual odors, or any materials out of place or not associated with an authorized  
35 activity) should take the following precautions:

- 36 • Follow the procedures in the IRPG;
- 37 • Treat each site as if it contains harmful materials;
- 38 • Do not handle, move, or open any container, breathe vapors, or make  
39 contact with the material;
- 40 • Move a safe distance upwind from the site;

- 1 • Contact appropriate personnel. Generally, this is the Hazardous Materials
- 2 Coordinator for the local office; and
- 3 • Firefighters need to immediately report hydrogen sulfide (H<sub>2</sub>S) or potential
- 4 exposure and seek immediate medical care.
- 5 ○ *BLM/NPS/FWS – Agencies require that all field personnel complete*
- 6 *First Responder Awareness training. Firefighters are required to take*
- 7 *an annual refresher for Hazardous Material protocol.*

8 The following general safety rules shall be observed when working with  
9 chemicals:

- 10 • Read and understand the Safety Data Sheets.
- 11 • Keep the work area clean and orderly.
- 12 • Use the necessary safety equipment.
- 13 • Label every container with the identity of its contents and appropriate
- 14 hazard warnings.
- 15 • Store incompatible chemicals in separate areas.
- 16 • Substitute less toxic materials whenever possible.
- 17 • Limit the volume of volatile or flammable material to the minimum needed
- 18 for short operation periods.
- 19 • Provide means of containing the material if equipment or containers should
- 20 break or spill their contents.

#### 21 **Wildland Fires In or Near Oil/Gas Operations**

22 For units with oil and gas operations within their jurisdiction, the following are  
23 the minimum standard operating procedures to help ensure the health and safety  
24 of wildland firefighters:

- 25 • Firefighters shall receive annual oil and gas hazard recognition and
- 26 mitigation training;
- 27 • Local unit shall complete a JHA/RA for wildland fire activities in oil and
- 28 gas areas and provide a copy with a briefing to all local and incoming
- 29 resources;
- 30 • Establish Response Protocols and proper decontamination procedures to
- 31 minimize exposure to additional employees, equipment, and facilities.
- 32 Protocols will include notification procedures to respective oil and gas
- 33 company(s);
- 34 • Ensure oil and gas resource advisors are consulted;
- 35 • Ensure that at least one member of each squad or engine crew is
- 36 knowledgeable in the use and data interpretation of the H<sub>2</sub>S gas monitor.
- 37 Training on the device will include at a minimum:
- 38 ○ Equipment charging and maintenance of sensors;
- 39 ○ Startup, zeroing, calibration, and bump testing procedures as
- 40 recommended by the manufacturer; and
- 41 ○ How the monitor elicits a warning alarm (visual, auditory, vibration).

- 1 • Understand Peak Reading, Short Term Exposure Limits (STEL), and Time
- 2 Weighted Averages;
  - 3 ○ Understand how to set the monitors alarm threshold.
- 4 • The monitor's alarm shall be set at the current American Conference on
- 5 Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (10
- 6 PPM 2008) and STEL (15 PPM 2008);
- 7 • If H<sub>2</sub>S gas is encountered, immediately disengage and leave area; and
- 8 • Do not establish incident base camps or staging areas in or near oil and gas
- 9 operations.

10 The following websites provide additional information and training resources:

- 11 • <http://www.nifc.gov/video/HazMat.wmv>
- 12 • <http://www.wildfirelessons.net/irdb>
- 13 • [www.nfpa.org/assets/files/pdf/Sup10.pdf](http://www.nfpa.org/assets/files/pdf/Sup10.pdf)
- 14 • A template for briefing Incident Management Teams is available in the
- 15 "Additional Resources" section of the NIFC Safety website at
- 16 <http://www.nifc.gov>.

#### 17 **Wildland Fires In or Near Radioactive Locations**

18 Abandoned uranium mines and other potential radioactive sites exist in many  
19 areas of public lands. When these areas are identified, local management should  
20 provide information and direction on operations to be used. General knowledge  
21 and understanding of potential radiation exposure is necessary for wildland fire  
22 program management to make valid risk management decisions in these areas.

23 The following websites provide this information and general guidelines:

- 24 • [http://www.nifc.gov/policies/red\\_book/doc/RadiationDocument.pdf](http://www.nifc.gov/policies/red_book/doc/RadiationDocument.pdf)
- 25 • [http://www.nifc.gov/policies/red\\_book/doc/RadiationGuidance.pdf](http://www.nifc.gov/policies/red_book/doc/RadiationGuidance.pdf)

#### 26 **Wildland Fires In or Near Coal Seams**

27 Coal is naturally occurring black or brownish rock usually located in rock strata  
28 in layers or veins, coal beds or coal seams. Exposed coal seams are abundant  
29 through southeast and central Montana, western North Dakota, South Dakota,  
30 and Alaska. A coal seam fire is the smoldering of an exposed or underground  
31 coal deposit.

32 **Risks:** Coal seam fires pose a serious problem that can be a hazard to  
33 firefighter's health and safety. Coal seam fires can emit toxic gases, including  
34 carbon monoxide, sulfur dioxide and other potentially hazardous gases.

35 Carbon Monoxide is a colorless, odorless and tasteless gas that can be highly  
36 toxic. Sulfur Dioxide is a colorless gas with a characteristic of an irritating,  
37 pungent odor and is also highly toxic. Some symptoms of exposure to these  
38 gases may include headaches, nausea, dizziness, fatigue, shortness of breath,  
39 coughing and eye irritation.

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- 1 Because of the variances in symptoms and exposure levels, seek medical  
2 attention for a complete diagnosis if firefighters have been exposed to toxic  
3 gases from coal seam fires and symptoms persist. Additionally firefighters  
4 exposed to coal ash, smoke or vapor should trade in their PPE for fresh PPE.  
5 Individually bag PPE that has been contaminated.
- 6 **Required Actions/Precautions:** Firefighters are typically not equipped or trained  
7 for coal seam fires and should not attempt to extinguish such fires with hand  
8 tools and engines.
- 9 Putting water on coal seam fires is normally useless. Mitigation crews will need  
10 to excavate the burning coal seam and mix the hot material with soil and water  
11 to cool. The area can be reclaimed by backfilling the seam and re-vegetating the  
12 disturbed area.
- 13 Signs of a coal seam fire may include a rotten egg smell, smoking white ash and  
14 continuous or non-continuous lines of what appears to be smoldering black rock  
15 (coal) where the flame may or may not be visible. Avoid low lying terrain in  
16 known coal seam fire areas especially early morning when air temps are cool.  
17 Gas tends to sink when air is cool and will accumulate in low lying areas.
- 18 Do not depend on sense of smell to detect coal seam fires. At high  
19 concentrations the sense of smell will be almost immediately overwhelmed or  
20 become numb. At lower levels, the sense of smell will slowly deteriorate as  
21 levels build in the blood stream. Do not stand downwind of coal smoke under  
22 any conditions especially during suppression operations.
- 23 Report the location of all coal seam fires to the incident commander or  
24 supervisor. ICs should notify agency representatives of locations of coal seam  
25 fires. Agencies should have resource advisors notify incoming incident  
26 command teams and firefighting resources of known locations of exposed coal  
27 seams, coal mines or abandoned coal mines adjacent to ongoing incidents and  
28 the risks and precautions to take when working around coal seam fires.
- 29 **Hazardous Water Sources**
- 30 Many water sources used during wildland fire operations may appear harmless,  
31 but contain hazardous materials (e.g., hydraulic fracturing fluid, cyanide,  
32 sewage, corrosives). These hazardous water sources may pose threats to  
33 personnel health and firefighting equipment. Indicators that a water source may  
34 be hazardous include proximity to active or inactive mining operations, gas/oil  
35 wells, water treatment facilities, or other industrial operations. In many cases,  
36 these hazardous water sources may not be fenced and no warning signs may be  
37 present.
- 38 Fire personnel should evaluate water sources to ensure they do not contain  
39 potentially hazardous materials. If unsure of the contents of a water source,

- 1 personnel should not utilize the water source until its contents can be verified.
- 2 Dispatch centers, Resource Advisors, or on-scene personnel can assist with
- 3 verification of safe water sources. Information about known hazardous water
- 4 sources should be included in operational briefings.

#### 5 **Hydrogen Cyanide (HCN) Exposure**

- 6 Synthetic materials such as plastics, nylon, Styrofoam®, and polyurethane can
- 7 produce HCN. HCN exposure can disrupt the body's ability to use oxygen,
- 8 cause asphyxia, and cause carbon monoxide poisoning. Common items such as
- 9 sofas, carpeting, vehicles, and other products routinely found in the wildland can
- 10 produce smoke with HCN.

- 11 Symptoms of HCN poisoning include bitter almond odor on breath, burning
- 12 taste in mouth, stiffness of lower jaw, feeling of numbness or constriction in
- 13 throat, weakness, and headache.

- 14 Follow hazardous materials protocols contained in the IRPG to mitigate
- 15 exposure to HCN. If personnel may have been exposed to HCN, immediate
- 16 referral to a health care facility capable of toxicology testing and treatment of
- 17 HCN exposure is required.

#### 18 **Safety for Personnel Visiting Fires**

- 19 A wide variety of personnel such as Agency Administrators, other agency
- 20 personnel, dignitaries, members of the news media, etc., may visit incidents. The
- 21 following standards apply to all visitors.

#### 22 **Visits to Incident Base Camps or Non-Fireline Field Locations**

23 Recommended field attire includes:

- 24 • Lace-up, closed toe shoes/boots with traction soles and ankle support.
- 25 • Trousers.
- 26 • Long-sleeve shirt.
- 27 • For agency personnel, the field uniform is appropriate.

#### 28 **Fireline Logistical Support**

29 Personnel performing fireline logistical support duties (e.g., bus drivers, supply  
30 delivery/retrieval, incident drivers, non-tactical water delivery, etc.) must meet  
31 the following requirements:

- 32 • Complete fire shelter training.
- 33 • Required Fireline PPE as referenced in the Personal Protective Equipment  
34 section of this chapter.
- 35 • Receive an incident briefing.
- 36 • Ensure adequate communications are established.
- 37 • Other requirements (if any) established by the Incident Commander.
- 38 • A Work Capacity Test (WCT) is not required unless required for a specific  
39 position defined in the PMS 310-1.

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**1 Minimum Requirements for Visits to the Fireline/RX Burns**

2 Visits (such as media visits or political/administrative tours) to hazardous areas  
3 of the fire or areas that pose a fire behavior threat will be managed by meeting  
4 the requirements below:

- 5 • Visits to the fireline must have the approval of the IC/Burn Boss.
- 6 • Visitors must maintain communications with the DIVS or appropriate  
7 fireline supervisor of the area they are visiting.
- 8 • Required Fireline PPE as referenced in the Personal Protective Equipment  
9 section of this chapter.
- 10 • Required field attire:
  - 11 ○ Undergarments made of 100 percent or the highest possible content of
  - 12 natural fibers or flame-resistant materials.
- 13 • Required equipment/supplies:
  - 14 ○ Hand tool.
  - 15 ○ Water canteen.

16 Visitors to the Fireline/RX Burns may be “Non-Escorted” or “Escorted”  
17 depending on the following requirements:

**18 Non-Escorted Visits**

19 Visitors must have an incident qualification with a minimum physical fitness  
20 level of “light” to visit the fireline unescorted.

- 21 • Must have adequate communications and radio training.
- 22 • Completed the following training:
  - 23 ○ Introduction to Fire Behavior (S-190).
  - 24 ○ Firefighter Training (S-130).
  - 25 ○ Annual Fireline Safety Refresher Training, including fire shelter
  - 26 training.
- 27 • Deviation from these requirements must be approved by the IC or Burn  
28 Boss.

29 The law enforcement physical fitness standard is accepted as equivalent to a  
30 “light” WCT work category.

**31 Escorted Visits**

32 All visitors lacking the above training and physical requirements must be  
33 escorted while on the fireline.

- 34 • Visitors must receive training in the proper use of Fireline PPE.
- 35 • Requirement for hand tool and water to be determined by escort.
- 36 • Visitors must be able to walk in mountainous terrain and be in good  
37 physical condition with no known limiting conditions.

- 1 • Escorts must be minimally qualified as Single Resource Boss.
- 2 • Deviation from these requirements must be approved by the IC or Burn
- 3 Boss.

#### 4 **Helicopter Observation Flights**

5 Visitors who take helicopter flights to observe fires must receive approval from  
6 the Incident Commander, a passenger briefing, and meet the following  
7 requirements:

- 8 • Required PPE:
  - 9 ○ Flight helmet
  - 10 ○ Leather boots
  - 11 ○ Flame-resistant clothing
  - 12 ○ All leather or leather and aramid gloves

13 Occasional passengers/visitors have no training requirement, but a qualified  
14 flight manager must supervise loading and unloading of passengers.

#### 15 **Fixed-Wing Observation Flights**

16 No PPE is required for visitors and agency personnel who take fixed-wing  
17 flights to observe fires. However, a passenger briefing is required, and the flight  
18 level must not drop below 500 feet AGL.

#### 19 **Six Minutes for Safety Training**

20 It is recommended that daily Six Minutes for Safety training be conducted that  
21 focuses on high-risk, low frequency activities that fire personnel may encounter  
22 during a fire season. A daily national Six Minutes for Safety briefing can be  
23 found at <http://www.wildfirelessons.net/6minutesforsafety> or within the  
24 National Incident Management Situation Report.

#### 25 **SAFENET**

26 SAFENET is a form, process, and method for reporting and resolving safety  
27 concerns encountered in any aspect (e.g., preparedness, training, etc.) of  
28 wildland fire or all hazard incident management. The information provided on  
29 the form will provide important, safety-related data to the National Interagency  
30 Fire Center, and determine long-term trends and problem areas.

31 The objectives of the form and process are:

- 32 • To provide immediate reporting and correction of unsafe situations or close
- 33 calls in wildland fire.
- 34 • To provide a means of sharing safety information throughout the fire
- 35 community.
- 36 • To provide long-term data that will assist in identifying trends.
- 37 • Primarily intended for wildfire and prescribed fire situations, however,
- 38 SAFENET can be used for training and all hazard events.

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- 1 Individuals who observe or who are involved in an unsafe situation shall initiate
- 2 corrective actions if possible, and then report the occurrence using SAFENET.
- 3 You are encouraged, but not required, to put your name on the report.
- 4 Prompt replies to the originator (if name provided), timely action to correct the
- 5 problem, and discussion of filed SAFENETs at local level meetings encourage
- 6 program participation and active reporting.
- 7 SAFENET is not the only way to correct a safety-related concern and it does not
- 8 replace accident reporting or any other valid agency reporting method. It is an
- 9 efficient way to report a safety concern. It is also a way for front line firefighters
- 10 to be involved in the daily job of being safe and keeping others safe, by
- 11 documenting and helping to resolve safety issues. SAFENETs may be filed:
- 12 • Electronically at <http://safenet.nifc.gov>;
- 13 • Verbally by telephone at 1-888-670-3938; or
- 14 • By SAFENET Field Card
- 15 The SAFENET Field Card can be used by wildland fire personnel to
- 16 immediately identify and report unsafe situations or close calls that should
- 17 receive immediate resolution/mitigation. If the situation cannot be resolved at
- 18 the local/incident level, the reporting individual is encouraged to follow the
- 19 formal SAFENET submission process stated above. SAFENET Field Cards are
- 20 available at <http://safenet.nifc.gov>.

#### 21 **Safety Alert System**

- 22 The Safety Alert system is intended as another mechanism to provide safety  
23 related information to the field. The expectation is that the messages will  
24 continue to be forwarded within the fire community, and that they will receive a  
25 wide distribution in a relatively short period of time. There are three levels of  
26 Safety Alert:
- 27 • Safety Warning – A warning of a safety hazard that poses an imminent
  - 28 threat to life or property.
  - 29 • Safety Advisory – An advisory on safety information that isn't related to
  - 30 imminent or potential threats of injury.
  - 31 • Safety Bulletin – A factual confirmation of a serious accident, incident or
  - 32 fatality within the fire community.

- 33 A database of all bulletins can be found at  
34 <http://www.nifc.gov/safetyAlerts/index.html>.

#### 35 **Accident/Injury Reporting**

- 36 The Occupational Safety and Health Administration (OSHA) mandates that all  
37 accidents and injuries be reported in a timely manner. This is important for the  
38 following reasons:

- 1 • To protect and compensate employees for incidents that occur on-the-job.
- 2 • To assist supervisors and safety managers in taking corrective actions and
- 3 establish safer work procedures.
- 4 • To determine if administrative controls or Personal Protective Equipment
- 5 are needed to prevent a future incident of the same or similar type.
- 6 • To provide a means for trend analysis.

#### 7 **Agency Reporting Requirements**

8 Employees are required to immediately report to their supervisor every job-  
9 related accident. Managers and supervisors shall ensure that an appropriate level  
10 of investigation is conducted for each accident and record all personal injuries  
11 and property damage. Coordinate with your human resources office or  
12 administrative personnel to complete appropriate Office of Worker's  
13 Compensation (OWCP) forms. Reporting is the responsibility of the injured  
14 employee's home unit regardless of where the accident or injury occurred.

- 15 • *BLM/NPS/FWS – Employees will report accidents using the Safety*  
16 *Management Information System (SMIS) at <https://www.smis.doi.gov/>.*  
17 *Supervisors shall complete SMIS report within six working days after the*  
18 *accident/injury.*
- 19 • *FS – Employees will use the Safety and Health Information Portal System*  
20 *(SHIPS) through the Forest Service Dashboard at*  
21 *[http://fsweb.asc.fs.fed.us/HRM/owcp/WorkersComp\\_index.php](http://fsweb.asc.fs.fed.us/HRM/owcp/WorkersComp_index.php).*

#### 22 **OSHA Reporting Requirements**

23 For accidents/injuries meeting the Serious Accident criteria (found in Chapter  
24 18), OSHA must be notified within 8 hours.

25 For other work-related accidents/injuries requiring in-patient hospitalizations,  
26 amputations, or loss of an eye, OSHA must be notified within 24 hours. In-  
27 patient hospitalization is defined as formal admission to the in-patient service of  
28 a hospital or clinic for care or treatment (does not include admission for  
29 observation or diagnostic testing only).

30 Supervisors will coordinate with the unit safety manager where the  
31 accident/injury occurred to ensure notifications are made to the appropriate  
32 OSHA regional office.

33 OSHA reporting information is available at  
34 <https://www.osha.gov/recordkeeping2014/index.html>.

#### 35 **Critical Incident Management**

36 The NWCG has published the *Agency Administrator's Guide to Critical*  
37 *Incident Management* (PMS 926). This guide is designed as a working tool to  
38 assist Agency Administrators with the chronological steps in managing a critical  
39 incident. This document includes a series of checklists, which outline Agency

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1 Administrator's and other functional area's oversight and responsibilities. The  
2 guide is not intended to replace local emergency plans or other specific guidance  
3 that may be available, but should be used in conjunction with existing agency  
4 policy, line of duty death (LODD) handbooks, or other critical incident  
5 guidance. Local units should complete the guide or equivalent, and review and  
6 update at least annually.

#### 7 **Critical Incident Stress Management (CISM)**

8 CISM is a comprehensive, integrated, systematic, and multicomponent crisis  
9 intervention program that was developed to manage traumatic experiences. It is  
10 a package of tactics that are designed to mitigate the impact of a traumatic event,  
11 facilitate normal recovery processes, restore adaptive function, and identify  
12 people who would benefit from additional support services. CISM interventions  
13 services can be applied to wildland fire, law enforcement, or other emergency  
14 responses. CISM interventions should never be used for grief counseling,  
15 mediation or a replacement for mental health care professionals. The Agency  
16 Administrator is responsible for identifying an event as a critical incident.

#### 17 **Critical Incident Peer Support (CIPS)**

18 Critical Incident Peer Support (CIPS) is an intervention tactic designed for  
19 colleagues or people of "mutual respect" to help each other through difficult  
20 situations. It is the foundation of the interagency wildland fire CISM program  
21 since peers understand the unique traumas, fears, job related stresses, and offer  
22 instant trust, respect, credibility, and empathy. Camaraderie among peers has  
23 credibility that academic training cannot create.

#### 24 **Critical Incident Peer Support Groups**

25 CIPS Groups are assembled at the time of request and can be ordered through  
26 the dispatch/coordination system. For more information go to  
27 <http://gacc.nifc.gov/cism/>.

## Chapter 8 Interagency Coordination and Cooperation

### Introduction

Fire management planning, preparedness, prevention, suppression, restoration and rehabilitation, monitoring, research, and education will be conducted on an interagency basis with the involvement of cooperators and partners. The same capabilities used in wildland fire management will also be used, when appropriate and authorized, on non-fire incidents in the United States, and on both wildland fires and non-fire incidents internationally.

### National Wildland Fire Cooperative Agreements

#### USDOI and USDA Interagency Agreement for Fire Management

The objectives of the *Interagency Agreement for Fire Management Between the Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA), National Park Service (NPS), Fish and Wildlife Service (FWS) of the United States Department of the Interior (DOI) and the Forest Service (FS) of the United States Department of Agriculture* are:

- To provide a basis for cooperation among the agencies on all aspects of wildland fire management and as authorized in non-fire emergencies.
- To facilitate the exchange of personnel, equipment (including aircraft), supplies, services, and funds among the agencies.

#### DOI, USDA, and DOD Interagency Agreement

The purpose of the *Interagency Agreement for the Provision of Temporary Support During Wildland Firefighting Operations among the United States Department of the Interior, the United States Department of Agriculture, and the United States Department of Defense* is:

- To establish the general guidelines, terms and conditions under which the National Interagency Fire Center (NIFC) will request, and DOD will provide, temporary support to NIFC in wildfire emergencies occurring within all 50 States, the District of Columbia, and all U.S. Territories and Possessions, including fires on State and private lands. It is also intended to provide the basis for reimbursement of DOD under the Economy Act.

These and other agreements pertinent to interagency wildland fire management can be found in their entirety in Chapter 40 of the *National Interagency Mobilization Guide* online at <http://www.nifc.gov/nicc/mobguide/CHAPTER40.pdf>.

**1 National Wildland Fire Management Structure****2 Wildland Fire Leadership Council (WFLC)**

3 The WFLC is a cooperative, interagency body dedicated to achieving consistent  
4 implementation of the goals, actions, and policies in the National Fire Plan and  
5 the Federal Wildland Fire Management Policy. The WFLC provides a forum for  
6 high-level dialogues between federal and non-federal entities to set strategic  
7 direction for national fire management.

8 The Council consists of the Department of Agriculture's Undersecretary for  
9 Natural Resources and Environment, the Deputy Undersecretary for Natural  
10 Resources and Environment, and the Chief of the U.S. Forest Service; the  
11 Department of the Interior's (DOI) Assistant Secretary for Policy, Management  
12 and Budget, the Directors of the National Park Service, Bureau of Indian  
13 Affairs, Bureau of Land Management, Fish and Wildlife Service, and U.S.  
14 Geological Survey; the Department of Homeland Security's U.S. Fire  
15 Administration Administrator; the President of the Intertribal Timber Council;  
16 two state governors selected from the National Governors Association; a county  
17 commissioner serving as a member of the National Association of Counties; a  
18 mayor serving as a member of the National League of Cities; a State Forester  
19 serving at the request of a senior state elected official; and a fire chief serving at  
20 the request of a senior local government elected official.

21 The Council is coordinated by the Department of Agriculture's Deputy  
22 Undersecretary for Natural Resources and Environment and DOI's Assistant  
23 Secretary for Policy, Management and Budget.

**24 Wildland Fire Executive Council (WFEC)**

25 The WFEC is an advisory council that provides recommendations on national  
26 wildland fire management to the secretaries of Agriculture and Interior through  
27 WFLC. Members include the Director, USDA FS Fire and Aviation  
28 Management; the Director, DOI Office of Wildland Fire; the Deputy  
29 Administrator, DHS U. S. Fire Administration; an NWCG Executive Board  
30 representative; a National League of Cities representative; an Intertribal Timber  
31 Council representative; a Fire Committee representative from the National  
32 Association of State Foresters; a National Association of Counties  
33 representative; an International Association of Fire Chiefs representative, and a  
34 National Governors Association representative.

**35 Federal Fire Policy Council (FFPC)**

36 The FFPC provides a common national federal agency approach to wildland fire  
37 management. FFPC ensures that wildland fire management policies, programs,  
38 activities, and budgets are coordinated and consistent among and between the  
39 member agencies and strives for coordinated and consistent policies and  
40 programs with non-federal partner and cooperator agencies. FFPC sets strategic  
41 policy and program direction, provides coordinated recommendations to the

- 1 Secretaries of Agriculture, the Interior, and Homeland Security and resolves
- 2 inconsistencies among and between federal wildland fire programs.
- 3 The FFPC is accountable and has the authority to:
- 4 • Set the vision and provide leadership for the federal wildland fire program.
- 5 • Set national federal strategic wildland fire program goals and priorities.
- 6 • Establish the Fire Executive Council.
- 7 The FFPC is responsible to:
- 8 • Provide coordinated federal wildland fire management policy direction.
- 9 • Resolve policy and program management inconsistencies.
- 10 • Set strategic budget priorities for wildland fire management.
- 11 • Coordinate and communicate with non-federal entities.
- 12 The FFPC is composed of the USDA Deputy Under Secretary for National
- 13 Resources and Environment; the Chief of the Forest Service and the Deputy
- 14 Chief of State and Private Forestry; and for DOI the Assistant Secretaries for
- 15 Policy, Management and Budget, Fish and Wildlife and Parks, Indian Affairs,
- 16 Land and Minerals Management, and Water and Science; the Bureau Directors
- 17 of the Bureau of Indian Affairs, the Bureau of Land Management, the Fish and
- 18 Wildlife Service, the National Park Service, and the US Geological Survey; the
- 19 Deputy Assistant Secretary – Law Enforcement, Security and Emergency
- 20 Management; the Assistant Administrator of DHS-US Fire Administration; and
- 21 the Environmental Protection Agency representative.
- 22 **Fire Executive Council (FEC)**
- 23 The FEC provides a common, integrated, and coordinated federal agency
- 24 approach to wildland fire policy, leadership, budget, and program oversight.
- 25 Within the broad strategic direction and vision set by the FFPC, the FEC ensures
- 26 that the wildland fire management policies, programs, activities, and budgets are
- 27 coordinated and consistent among and between the member agencies. FEC sets
- 28 policy and program direction for federal wildland fire program implementation,
- 29 provides coordinated recommendations to the FFPC, and resolves
- 30 inconsistencies among and between federal wildland fire programs. FEC ensures
- 31 policy and program coordination and integration with non-fire management
- 32 programs and activities as well as non-federal partners and cooperators.
- 33 The FEC is accountable and has the authority to:
- 34 • Establish strategic federal fire program budget direction and priorities.
- 35 • Ensure coordinated federal policy development.
- 36 • Develop federal business requirements and priorities.
- 37 The FEC is responsible and has the authority to:
- 38 • Provide coordinated federal interagency executive level wildland fire policy
- 39 leadership, direction, and program oversight.
- 40 • Provide coordinated recommendations and advice to the FFPC.

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- 1 • Provide wildland fire policy and program direction to the Fire Management
- 2 Board (FMB).
- 3 • Provide strategic policy and program integration with resource
- 4 management, aviation, and other related program areas.
- 5 • Coordinate and communicate with other non-federal entities.
- 6 • Set strategic budget direction and recommendations.
- 7 • Establish strategic direction and requirements for wildland fire information
- 8 and technology, wildland fire administrative/business support, scientific and
- 9 research support, and other program areas.
- 10 • Approve wildland fire policy, as appropriate.
- 11 • Resolve policy and program management inconsistencies and differences.
- 12 • Oversee compliance with policy, budget, and program direction.
- 13 • Charter the Fire Management Board.
- 14 • Charter the National Wildfire Coordinating Group (NWCG) along with the
- 15 Intertribal Timber Council and the National Association of State Foresters.

16 The FEC is composed of the Director and Deputy Directors, USFS Fire and  
17 Aviation Management (USDA); the Director, Office of Wildland Fire, Director,  
18 Office of Aviation Services, Fire Executives from BLM, NPS, BIA, and  
19 USFWS (DOI); and the US Fire Administration Chief, Emergency Support  
20 Branch, National Fire Programs (USDHS-FEMA).

21 **Fire Management Board (FMB)**

22 The FMB provides a mechanism for coordinated and integrated federal wildland  
23 fire program management and implementation. The FMB, taking strategic  
24 policy and program direction from the FEC, directs, coordinates and oversees  
25 the development and implementation of federal wildland fire policy and  
26 programs to provide consistent and cost-effective program management.

27 The FMB is accountable and has the authority to:

- 28 • Coordinate federal program management and oversight.

29 The FMB is responsible for and has the authority to:

- 30 • Provide common, integrated implementation strategies, approaches,
- 31 programs, and oversight for implementing federal wildland fire policies.
- 32 • Provide federal wildland fire program strategy, policy, budget and program
- 33 recommendations to the FEC.
- 34 • Provide recommendations on information and technology requirements,
- 35 priorities, and investments to the Wildland Fire Information and
- 36 Technology Executive Board.
- 37 • Provide recommendations on science and research requirements and
- 38 priorities necessary to support wildland fire program management activities.
- 39 • Identify requirements and recommend priorities for standards necessary to
- 40 ensure interoperability of intergovernmental wildland fire activities and
- 41 operations.

- 1 • Consult with our non-federal partners.
  - 2 • Develop recommendations for interagency wildland fire
  - 3 administrative/business support needs.
- 4 The FMB is composed of the USFS Fire and Aviation Management Assistant  
5 Directors (USDA); the Deputy Director, Office of Wildland Fire, the Deputy  
6 Director, Office of Aviation Services, the Fire Directors for BIA, BLM,  
7 USFWS, and NPS (DOI); and the Wildfire Program Manager, US Fire  
8 Administration (USDHS-FEMA).
- 9 **National Wildfire Coordinating Group (NWCG)**  
10 The NWCG is made up of the USFS, BIA, BLM, FWS, and NPS; Intertribal  
11 Timber Council; U.S. Fire Administration (USFA); state forestry agencies  
12 through the National Association of State Foresters (NASF); and the  
13 International Association of Fire Chiefs. The mission of the NWCG is to  
14 provide leadership in establishing, maintaining, and communicating consistent  
15 interagency standards, guidelines, and qualifications for wildland fire  
16 management. Its goal is to provide more effective execution of each agency's  
17 fire management program. The group provides a formalized system to agree  
18 upon standards of training, equipment, qualifications, and other operational  
19 functions.
- 20 **Interior Fire Executive Council (IFEC)**  
21 The Interior Fire Executive Council (IFEC) provides interagency coordination  
22 and interagency executive-level wildland fire policy leadership, direction, and  
23 program oversight. IFEC is the focal point for discussing wildland fire policy  
24 issues that affect the DOI and provides a forum for gathering the interests of the  
25 DOI bureaus to formulate a DOI recommendation and/or position to be taken  
26 forward to the Wildland Fire Executive Council (WFEC).
- 27 The IFEC is composed of the Director, Office of Wildland Fire (OWF) and the  
28 four DOI fire directors and their respective senior executives, as well as the  
29 Director, Aviation Management Directorate and a representative from USGS.
- 30 **Office of Wildland Fire (OWF)**  
31 The OWF is a Department of the Interior organization responsible for managing  
32 and overseeing all wildland fire management activities executed by the bureaus.  
33 OWF coordinates the Department's wildland fire programs within the  
34 Department and with other federal and non-federal partners, to establish legally  
35 and scientifically based Department-wide policies and budgets, and to provide  
36 strategic leadership and oversight, that result in safe, comprehensive, cohesive,  
37 efficient, and effective wildland fire programs for the nation consistent with the  
38 bureaus' statutory authorities and constraints.

1 OWF has three functional areas:

- 2 • The Budget and Performance Management Division which manages and  
3 oversees the DOI Wildland Fire Management financial account and budget  
4 operations;
- 5 • The Policy Division which develops wildland fire management program  
6 policies, strategies, and plans for wildland fire operations, fuels and biomass  
7 coordination, emergency management coordination, science advisory,  
8 international cooperation, and strategic planning; and
- 9 • The Enterprise Systems and Decision Support Division which coordinates  
10 with Federal and non-Federal partners on inter-departmental/intra-  
11 governmental Information Technology systems that support interagency  
12 wildland fire business management, fire operations and program  
13 management activities and other decision support tools. This functional area  
14 also manages the Fire Program Analysis Group (FPA), Wildland Fire  
15 Decision Support System (WFDSS), the Integrated Reporting of Wildland-  
16 Fire Information Group (iRWIn), and Ecosystem Management Decision  
17 Support (EMDS).

## 18 **Multi-Agency Management and Coordination**

### 19 **National Multi-Agency Coordinating (NMAC) Group**

20 National multi-agency coordination is overseen by the NMAC Group, which  
21 consists of one representative each from the following agencies: BLM, FWS,  
22 NPS, BIA, FS, NASF, and the USFA, who have been delegated authority by  
23 their respective agency directors to manage wildland fire operations on a  
24 national scale when fire management resource shortages are probable. The  
25 delegated authorities include:

- 26 • Provide oversight of general business practices between the NMAC group  
27 and the Geographic Area Multi-Agency Coordination groups.
- 28 • Establish priorities among geographic areas.
- 29 • Activate and maintain a ready reserve of national resources for assignment  
30 directly by NMAC as needed.
- 31 • Implement decisions of the NMAC.

32 The NMAC Operating Plan, NMAC Correspondence, and other resources and  
33 references are at <http://www.nifc.gov/nicc/administrative/nmac/index.html>.

### 34 **Geographic Area Multi-Agency Coordinating (GMAC) Groups**

35 Geographic area multi-agency coordination is overseen by GMAC Groups,  
36 which are comprised of geographic area (State, Region) lead administrators or  
37 fire managers from agencies that have jurisdictional or support responsibilities,  
38 or that may be significantly impacted by resource commitments. GMAC  
39 responsibilities include:

- 40 • Establish priorities for the geographic area.
- 41 • Acquire, allocate, and reallocate resources.

- 1 • Provide NMAC with National Ready Reserve (NRR) resources as required.
- 2 • Issue coordinated and collective situation status reports.

### 3 **National Dispatch/Coordination System**

- 4 The wildland fire dispatch system in the United States has three levels (tiers):
- 5 • National
  - 6 • Geographic
  - 7 • Local

- 8 Logistical dispatch operations occur at all three levels, while initial attack  
9 dispatch operations occur primarily at the local level.

### 10 **National Interagency Coordination Center (NICC)**

11 The NICC is located at NIFC, Boise, Idaho. The principal mission of the NICC  
12 is the cost-effective and timely coordination of land management agency  
13 emergency response for wildland fire at the national level. This is accomplished  
14 through planning, situation monitoring, and expediting resource orders between  
15 the BIA Areas, BLM States, National Association of State Foresters, FWS  
16 Regions, FS Regions, NPS Regions, National Weather Service (NWS) Regions,  
17 and other cooperating agencies.

18 The NICC supports non-fire emergencies when tasked by an appropriate agency,  
19 such as FEMA, through the National Response Framework. The NICC collects  
20 and consolidates information from the GACCs and disseminates the *National*  
21 *Incident Management Situation Report* through the NICC website at  
22 <http://www.nifc.gov/nicc/sitreprt.pdf>.

### 23 **Geographic Area Coordination Centers (GACCs)**

24 There are 10 GACCs, each of which serves a specific geographic portion of the  
25 United States. Each GACC interacts with the local dispatch centers, as well as  
26 with the NICC and neighboring GACCs. Refer to the *National Interagency*  
27 *Mobilization Guide* for a complete directory of GACC locations, addresses, and  
28 personnel.

29 The principal mission of each GACC is to provide the cost-effective and timely  
30 coordination of emergency response for all incidents within the specified  
31 geographic area. GACCs are also responsible for determining needs,  
32 coordinating priorities, and facilitating the mobilization of resources from their  
33 areas to other geographic areas.

### 34 **Local Dispatch Centers**

35 Local dispatch centers are located throughout the country as dictated by the  
36 needs of fire management agencies. The principal mission of a local dispatch  
37 center is to provide safe, timely, and cost-effective coordination of emergency  
38 response for all incidents within its specified geographic area. This entails the

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- 1 coordination of initial attack responses and the ordering of additional resources
- 2 when fires escape initial attack.

### 3 **Local and Geographic Area Drawdown**

4 Drawdown is the predetermined number and type of suppression resources that  
5 are required to maintain viable initial attack (IA) capability at either the local or  
6 geographic area. Drawdown resources are considered unavailable outside the  
7 local or geographic area for which they have been identified. Drawdown is  
8 intended to:

- 9 • Ensure adequate fire suppression capability for local and/or geographic area  
10 managers.
- 11 • Enable sound planning and preparedness at all management levels.

12 Although drawdown resources are considered unavailable outside the local or  
13 geographic area for which they have been identified, they may still be  
14 reallocated by the Geographic Area or National MAC to meet higher priority  
15 obligations. Refer to Chapter 19 for guidance on establishment of drawdown  
16 levels.

### 17 **National Ready Reserve (NRR)**

18 NRR is a means by which the NMAC identifies and readies specific categories,  
19 types, and quantities of fire suppression resources in order to maintain overall  
20 national readiness during periods of actual or predicted national suppression  
21 resource scarcity. Refer to Chapter 19 for NRR implementation responsibilities  
22 and requirements.

### 23 **Interagency Incident Business Management Handbook**

24 All federal agencies have adopted the NWCG *Interagency Incident Business*  
25 *Management Handbook* (IIBMH) as the official guide to provide execution of  
26 each agency's incident business management program. Unit offices, geographic  
27 areas, or NWCG may issue supplements, as long as policy or conceptual data is  
28 not changed.

29 Since consistent application of interagency policies and guidelines is essential,  
30 procedures in the IIBMH will be followed. Agency manuals provide a bridge  
31 between manual sections and the IIBMH so that continuity of agency manual  
32 systems is maintained and all additions, changes, and supplements are filed in a  
33 uniform manner.

- 34 • *DOI – The Department of the Interior All Hazards-Supplement to the*  
35 *Interagency Incident Business Management Handbook establishes business*  
36 *management guidelines for the Department of the Interior's (DOI's) all-*  
37 *hazards incidents. The DOI Supplement is available at*  
38 *<http://www.doi.gov/emergency/emergency-policy.cfm>.*

- 1 • *BLM – The IIBMH replaces BLM Manual Section 1111.*
- 2 • *NPS – Refer to RM-18.*
- 3 • *FWS – Refer to Service Manual 621 FW 1 Wildland Fire Management.*
- 4 • *FS – Refer to FSH 5109.34.*

## 5 Standards for Cooperative Agreements

### 6 Agreement Policy

7 Agreements will be comprised of two components: the actual agreement and an  
8 operations plan. The agreement will outline the authority and general  
9 responsibilities of each party and the operations plan will define the specific  
10 operating procedures.

11 Any agreement which obligates federal funds or commits anything of value  
12 must be signed by the appropriate warranted contracting officer. Specifications  
13 for funding responsibilities should include billing procedures and schedules for  
14 payment.

15 Any agreement that extends beyond a fiscal year must be made subject to the  
16 availability of funds. Any transfer of federal property must be in accordance  
17 with federal property management regulations.

18 All agreements must undergo periodic joint review; and, as appropriate,  
19 revision. Assistance in preparing agreements can be obtained from local or state  
20 office fire and/or procurement staff.

21 All appropriate agreements and operating plans will be provided to the servicing  
22 dispatch center. The authority to enter into interagency agreements is extensive.

- 23 • *BLM – BLM Manual 9200, Departmental Manual 620 DM, the Reciprocal*  
24 *Fire Protection Act, 42 U.S.C. 1856, and the Federal Wildland Fire*  
25 *Management Policy and Program Review.*
- 26 • *NPS – Chapter 2, Federal Assistance and Interagency Agreements*  
27 *Guideline (DO-20), and the Departmental Manual 620 (DM-620). NPS-*  
28 *RM-18, Interagency Agreements, Release Number 1, 02/22/99.*
- 29 • *FWS – Service Manual, Departmental Manual 620 DM, and Reciprocal*  
30 *Fire Protection Act, 42 U.S.C. 1856.*
- 31 • *FS – FSM 1580, 5106.2 and FSH 1509.11.*

## 32 Types of Agreements

### 33 National Interagency Agreements

34 The national agreement, which serves as an umbrella for interagency assistance  
35 among federal agencies is the interagency agreement between the Bureau of  
36 Land Management, Bureau of Indian Affairs, National Park Service, Fish and  
37 Wildlife Service of the United States Department of the Interior, and the Forest  
38 Service of the United States Department of Agriculture. This and other national

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1 agreements give substantial latitude while providing a framework for the  
2 development of state and local agreements and operating plans.

3 **Regional/State Interagency Agreements**

4 Regional and state cooperative agreements shall be developed for mutual  
5 assistance. These agreements are essential to the fire management program.  
6 Concerns for area-wide scope should be addressed through these agreements.

7 **Local Interagency Agreements**

8 Local units are responsible for developing agreements with local agencies and  
9 fire departments to meet mutual needs for suppression and/or prescribed fire  
10 services.

11 **Emergency Assistance**

12 Approved, established reimbursable agreements are the appropriate and  
13 recommended way to provide emergency assistance. If no agreements are  
14 established, refer to your Agency Administrator to determine the authorities  
15 delegated to your agency to provide emergency assistance.

16 **Contracts**

17 Contracts may be used where they are the most cost-effective means of  
18 providing for protection commensurate with established standards. A contract,  
19 however, does not absolve an Agency Administrator of the responsibility for  
20 managing a fire program.

21 Contracts should be developed and administered in accordance with Federal  
22 Acquisition Regulations. In particular, a contract should specify conditions for  
23 abandonment of a fire in order to respond to a new call elsewhere.

24 **Elements of an Agreement**

25 The following elements should be addressed in each agreement:

- 26 • The authorities appropriate for each party to enter in an agreement.
- 27 • The roles and responsibilities of each agency signing the agreement.
- 28 • An element addressing the cooperative roles of each participant in  
29 prevention, pre-suppression, suppression, fuels, and prescribed fire  
30 management operations.
- 31 • Reimbursements/Compensation – All mutually approved operations that  
32 require reimbursement and/or compensation will be identified and agreed to  
33 by all participating parties through a cost-share agreement. The mechanism  
34 and timing of the funding exchanges will be identified and agreed upon.
- 35 • Appropriation Limitations – Parties to this agreement are not obligated to  
36 make expenditures of funds or reimbursements of expenditures under terms  
37 of this agreement unless the Congress of the United States of America  
38 appropriates such funds for that purpose by the Counties of \_\_\_\_\_, by the

- 1 Cities of \_\_\_\_\_, and/or the Governing Board of Fire Commissioners  
2 of \_\_\_\_\_.
- 3 • Liabilities/Waivers – Each party waives all claims against every other party  
4 for compensation for any loss, damage, personal injury, or death occurring  
5 as a consequence of the performance of this agreement unless gross  
6 negligence on any part of any party is determined.
- 7 • Termination Procedure – The agreement shall identify the duration of the  
8 agreement and cancellation procedures.
- 9 • A signature page identifying the names of the responsible officials shall be  
10 included in the agreement.
- 11 ○ *NPS – Refer to DO-20 for detailed instructions and format for*  
12 *developing agreements.*

### 13 **Annual Operating Plans (AOPs)**

14 Annual Operating Plans shall be reviewed, updated, and approved prior to the  
15 fire season. The plan may be amended after a major incident as part of a joint  
16 debriefing and review. The plan shall contain detailed, specific procedures  
17 which will provide for safe, efficient, and effective operations.

#### 18 **General Elements of an Annual Operating Plan**

19 The following items should be addressed in the AOP:

- 20 • **Mutual Aid**  
21 The AOP should address that there may be times when cooperators are  
22 involved in emergency operations and unable to provide mutual aid. In this  
23 case, other cooperators may be contacted for assistance.
- 24 • **Command Structure**  
25 The Incident Command System (ICS) will be used to manage all fires under  
26 federal jurisdiction. Unified command should be used, as appropriate,  
27 whenever multiple jurisdictions are involved, unless one or more parties  
28 request a single agency IC. If there is a question about jurisdiction, fire  
29 managers should mutually decide and agree on the command structure as  
30 soon as they arrive on the fire; Agency Administrators should confirm this  
31 decision as soon as possible. Once this decision has been made, the incident  
32 organization in use should be relayed to all units on the incident as well as  
33 dispatch centers. In all cases, the identity of the IC must be made known to  
34 all fireline and support personnel.
- 35 • **Communications**  
36 In mutual aid situations, a common designated radio frequency identified in  
37 the AOP should be used for incident communications. All incident  
38 resources should utilize and monitor this frequency for incident  
39 information, tactical use, and changes in weather conditions or other  
40 emergency situations. In some cases, because of equipment availability/  
41 capabilities, departments/agencies may have to use their own frequencies  
42 for tactical operations, allowing the “common” frequency to be the link  
43 between departments. It is important that all department/agencies change to

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- 1 a single frequency or establish a common communications link as soon as  
2 practical. Clear text should be used. Avoid personal identifiers, such as  
3 names. This paragraph in the AOP shall meet Federal Communications  
4 Commission (FCC) requirements for documenting shared use of radio  
5 frequencies.
- 6 • **Distance/Boundaries**  
7 Responding and requesting parties should identify any mileage limitations  
8 from mutual boundaries where “mutual aid” is either pay or non-pay status.  
9 Also, for some fire departments, the mileage issue may not be one of initial  
10 attack “mutual aid,” but of mutual assistance. In this situation, you may  
11 have the option to make it part of this agreement or identify it as a situation  
12 where the request would be made to the agency having jurisdiction, which  
13 would then dispatch the fire department.
- 14 ○ *BLM – Agreements/AOPs with Department of Defense, best practices*  
15 *(including UXO protocols) are located on the BLM Fire Operations*  
16 *website [http://web.blm.gov/internal/fire/fire\\_ops/toolbox.htm](http://web.blm.gov/internal/fire/fire_ops/toolbox.htm).*
- 17 • **Time/Duration**  
18 Responding and requesting parties should identify time limitations (usually  
19 24 hours) for resources in a non-reimbursable status, and “reimbursable  
20 rates” when the resources are in a reimbursable status.
- 21 • **Qualifications/Minimum Requirements**  
22 As per the NWCG memorandum *Qualification Standards During Initial*  
23 *Action, March 22, 2004* and the PMS 310-1, *National Incident Management*  
24 *System: Wildland Fire Qualification System Guide*:
- 25 ○ The 310-1 qualification/certification standards are mandatory only for  
26 national mobilization of wildland firefighting resources.
- 27 ○ During initial action, all agencies (federal, state, local and tribal) accept  
28 each other’s standards. Once jurisdiction is clearly established, then the  
29 standards of the agency(s) with jurisdiction prevail.
- 30 ■ *BLM – BLM may accept the standards of any local cooperator*  
31 *through the duration of an incident when the cooperator has a*  
32 *current cooperative fire response agreement with BLM, and the*  
33 *cooperator is in compliance with the agreement. Personnel from*  
34 *agencies that do not subscribe to the NWCG qualification*  
35 *standards may be used on agency managed fires, and must only be*  
36 *assigned to duties commensurate with their competencies,*  
37 *qualifications, and equipment capabilities.*
- 38 ○ Prior to the fire season, federal agencies should meet with their state,  
39 local, and tribal agency partners and jointly determine the qualification/  
40 certification standards that will apply to the use of local, non-federal  
41 firefighters during initial action on fires on lands under the jurisdiction  
42 of a federal agency.
- 43 ○ The Geographic Area Coordinating Group should determine the  
44 application of 310-1 qualification/certification standards for  
45 mobilization within the geographic area.

- 1     ○ On a fire where a non-federal agency is also an agency with legal
- 2         jurisdiction, the standards of that agency apply.
- 3     ○ The AOP should address qualification and certification standards
- 4         applicable to the involved parties.
- 5     • **Reimbursement/Compensation**
- 6         Compensation shall be as close to actual expenditures as possible. This
- 7         should be clearly identified in the AOP. Vehicles and equipment operated
- 8         under the federal excess property system will only be reimbursed for
- 9         maintenance and operating costs.
- 10    • **Cooperation**
- 11         The annual operating plan will be used to identify how the cooperators will
- 12         share expertise, training, and information on items such as prevention,
- 13         investigation, communication plans, safety, training, ICS, and the
- 14         integration of resources.
- 15    • **Agency Reviews and Investigations**
- 16         Annual operating plans should describe processes for conducting agency
- 17         specific reviews and investigations. AOPs should also describe processes
- 18         for accident notifications to the appropriate fire managers, line officers, and
- 19         dispatch/coordination centers.
- 20    • **Dispatch Centers**
- 21         Dispatch centers will ensure all resources know the name of the assigned IC
- 22         and announce all changes in incident command. Geographic Area
- 23         Mobilization Guides, Zone Mobilization Guides, and Local Mobilization
- 24         Guides should include this procedure as they are revised for each fire
- 25         season.
- 26    **Fiscal Responsibility Elements of an Annual Operating Plan**
- 27    Annual Operating Plans should address the following:
- 28    • The level of communication required with neighboring jurisdictions
- 29         regarding the management of all wildland fires, especially those with
- 30         multiple objectives.
- 31    • The level of communication required with neighboring jurisdictions
- 32         regarding suppression resource availability and allocation, especially for
- 33         wildland fires with objectives that include benefit.
- 34    • Identify how to involve all parties in developing the strategy and tactics to
- 35         be used in preventing wildland fire from crossing the jurisdictional
- 36         boundary, and how all parties will be involved in developing mitigations
- 37         which would be used if a wildland fire does cross jurisdictional boundaries.
- 38    • Jurisdictions, which may include state and private lands, should identify the
- 39         conditions under which wildland fire may be managed to achieve benefit,
- 40         and the information or criteria that will be used to make that determination
- 41         (e.g., critical habitat, hazardous fuels, and land management planning
- 42         documents).
- 43    • Jurisdictions will identify conditions under which cost efficiency may
- 44         dictate where suppression strategies and tactical actions are taken (i.e., it

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- 1 may be more cost effective to put the containment line along an open  
2 grassland than along a mid-slope in timber). Points to consider include loss  
3 and benefit to land, resource, social and political values, and existing legal  
4 statutes.
- 5 • The cost-sharing methodologies that will be utilized should wildfire spread  
6 to a neighboring jurisdiction in a location where fire is not wanted.
  - 7 • The cost-share methodologies that will be used should a jurisdiction accept  
8 or receive a wildland fire and manage it to create benefit.
  - 9 • Any distinctions in what cost-share methodology will be used if the reason  
10 the fire spreads to another jurisdiction is attributed to a strategic decision,  
11 versus environmental conditions (weather, fuels, and fire behavior), or  
12 tactical considerations (firefighter safety, resource availability) that preclude  
13 stopping the fire at jurisdictional boundaries. Examples of cost-sharing  
14 methodologies may include, but are not limited to, the following:
    - 15 ○ When a wildland fire that is being managed for benefit spreads to a  
16 neighboring jurisdiction because of strategic decisions, and in a  
17 location where fire is not wanted, the managing jurisdiction shall be  
18 responsible for wildfire suppression costs.
    - 19 ○ In those situations where weather, fuels, or fire behavior of the  
20 wildland fire precludes stopping at jurisdiction boundaries cost-share  
21 methodologies may include, but are not limited to:
      - 22 a) Each jurisdiction pays for its own resources – fire suppression  
23 efforts are primarily on jurisdictional responsibility lands.
      - 24 b) Each jurisdiction pays for its own resources – services rendered  
25 approximate the percentage of jurisdictional responsibility, but not  
26 necessarily performed on those lands.
      - 27 c) Cost share by percentage of ownership.
      - 28 d) Cost is apportioned by geographic division. Examples of  
29 geographic divisions are: Divisions A and B (using a map as an  
30 attachment); privately owned property with structures; or specific  
31 locations such as campgrounds.
      - 32 e) Reconciliation of daily estimates (for larger, multi-day incidents).  
33 This method relies upon daily agreed to cost estimates, using  
34 Incident Action Plans or other means to determine multi-Agency  
35 contributions. Reimbursements can be made upon estimates  
36 instead of actual bill receipts.

37 For further information, refer to NWCG correspondence EB-M-09-009,  
38 *Revisions to the Annual Operating Plans for Master Cooperative Fire and*  
39 *Stafford Act Agreements due to Implementation of Revised Guidance for the*  
40 *Implementation of Federal Wildland Fire Management Policy*, April 13, 2009.

#### 41 **All-Hazards Coordination and Cooperation**

42 All-hazards is defined by NWCG as an incident, natural or manmade, that  
43 warrants action to protect life, property, environment, and public health or

1 safety, and to minimize disruptions of government, social, or economic  
2 activities. Wildland fire is one type of all-hazard incident. All-hazards incidents  
3 are managed using a standardized national incident management system and  
4 response framework.

5 **Stafford Act Disaster Relief and Emergency Assistance**

6 The *Robert T. Stafford Disaster Relief and Emergency Assistance Act* (Public  
7 Law 93-288, as amended) establishes the programs and processes for the Federal  
8 Government to provide disaster and emergency assistance to states, local  
9 governments, tribal nations, individuals, and qualified private non-profit  
10 organizations. The provisions of the Stafford Act cover all hazards including  
11 natural disasters and terrorist events. In response to, or in anticipation of, a  
12 major disaster or emergency as defined by the act, the President “may direct any  
13 federal agency, with or without reimbursement, to utilize its authorities and the  
14 resources granted to it under federal law (including personnel, equipment,  
15 supplies, facilities, managerial, technical, and advisory services) in support of  
16 state and local assistance efforts.”

17 **Homeland Security Act**

18 The *Homeland Security Act of 2002* (Public Law 107-296) established the  
19 Department of Homeland Security (DHS) with the mandate and legal authority  
20 to protect the American people from the continuing threat of terrorism. In the  
21 act, Congress also assigned DHS as the primary focal point regarding natural  
22 and manmade crises and emergency planning.

23 **Homeland Security Presidential Directive-5**

24 *Homeland Security Presidential Directive (HSPD-5), Management of Domestic*  
25 *Incidents, February 28, 2003*, is intended to enhance the ability of the United  
26 States to manage domestic incidents by establishing a single, comprehensive  
27 national incident management system. HSPD-5 designates the Secretary of  
28 Homeland Security as the Principal Federal Official (PFO) for domestic incident  
29 management and empowers the Secretary to coordinate Federal resources used  
30 in response to or recovery from terrorist attacks, major disasters, or other  
31 emergencies in specific cases.

32 **National Response Framework**

33 Federal disaster relief and emergency assistance are coordinated by the Federal  
34 Emergency Management Agency (FEMA) using the National Response  
35 Framework (NRF). The NRF, using the National Incident Management System  
36 (NIMS), establishes a single, comprehensive framework for the management of  
37 domestic incidents. The NRF provides the structure and mechanisms for the  
38 coordination of federal support to state, local, and tribal incident managers; and  
39 for exercising direct federal authorities and responsibilities. Information about  
40 the National Response Framework can be found at  
41 [www.fema.gov/national-response-framework](http://www.fema.gov/national-response-framework).

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1 **National Incident Management System (NIMS)**

2 HSPD-5 directed that the DHS Secretary develop and administer a National  
3 Incident Management System to provide a consistent, nationwide approach for  
4 Federal, State, and local governments to work effectively and efficiently  
5 together to prepare for, respond to, and recover from domestic incidents,  
6 regardless of cause, size, or complexity. To provide for interoperability and  
7 compatibility among federal, state, and local capabilities, the NIMS will include  
8 a core set of concepts, principles, terminology, and technologies covering the  
9 incident command system; multi-agency coordination systems; unified  
10 command; training; identification and management of resources (including  
11 systems for classifying types of resources); qualifications and certification; and  
12 the collection, tracking, and reporting of incident information and incident  
13 resources. Information about the NIMS can be found at [www.fema.gov/national-](http://www.fema.gov/national-incident-management-system)  
14 [incident-management-system](http://www.fema.gov/national-incident-management-system).

15 **Emergency Support Function (ESF) Annexes**

16 Emergency Support Function (ESF) Annexes are the components of the NRF  
17 that detail the mission, policies, structures, and responsibilities of federal  
18 agencies. They are utilized for coordinating resource and programmatic support  
19 to the states, tribes, and other federal agencies or other jurisdictions and entities  
20 during Incidents of National Significance. Each ESF Annex identifies the ESF  
21 coordinator and the primary and support agencies pertinent to the ESF. USDA-  
22 FS and USFA are the Co-coordinators of ESF #4 – Firefighting. USDA-FS  
23 coordinates at the national and regional levels with FEMA, state agencies, and  
24 cooperating agencies on all issues related to response activities. USFA  
25 coordinates with appropriate state agencies and local fire departments to expand  
26 structural firefighting resource capacity in the existing national firefighting  
27 mobilization system and provides information on protection of emergency  
28 services sector critical infrastructure.

29 The ESF primary agency serves as a federal executive agent under the Federal  
30 Coordinating Officer to accomplish the ESF mission. The ESF support agencies,  
31 when requested by the designated ESF primary agency, are responsible for  
32 conducting operations using their own authorities, subject-matter experts,  
33 capabilities, or resources. USDA-FS is the primary agency for ESF #4 –  
34 Firefighting.

35 See <https://www.fema.gov/media-library/assets/documents/32180?id=7353> for  
36 further information regarding ESF #4.

- 1 Other NRF USDA-FS and DOI responsibilities are:

ESF Support Annex	USDA-FS Role	DOI Role
#01 Transportation	Support	Support
#02 Communications	Support	Support
#03 Public Works and Engineering	Support	Support
#04 Firefighting	Coordinator & Primary	Support
#05 Emergency Management	Support	Support
#06 Mass Care, Emergency Assistance, Housing, and Human Services	Support	Support
#07 Logistics Management and Resources Support	Support	Support
#08 Public Health and Medical Services	Support	Support
#09 Search and Rescue	Support	Primary
#10 Oil and Hazardous Materials Response	Support	Support
#11 Agriculture and Natural Resources	Primary	Primary
#12 Energy		Support
#13 Public Safety and Security	Support	Support
#15 External Affairs	Support	Support

- 2 **National Oil and Hazardous Substances Pollution Contingency Plan (NCP,**  
3 **40 CFR 300)**  
4 The NCP provides the organizational structure and procedures for preparing for  
5 and responding to discharges of oil and releases of hazardous substances,  
6 pollutants, and contaminants. The NCP is required by section 105 of the  
7 Comprehensive Environmental Response, Compensation, and Liability Act of  
8 1980 (CERCLA), 42 U.S.C. 9605, as amended by the Superfund Amendments  
9 and Reauthorization Act of 1986 (SARA), P.L. 99-499, and by section 311(d) of  
10 the Clean Water Act (CWA), 33 U.S.C. 1321(d), as amended by the Oil  
11 Pollution Act of 1990 (OPA), P.L. 101-380. The NCP identifies the national  
12 response organization that may be activated in response actions to discharges of  
13 oil and releases of hazardous substances, pollutants, and contaminants in  
14 accordance with the authorities of CERCLA and the CWA. It specifies  
15 responsibilities among the federal, state, and local governments and describes  
16 resources that are available for response, and provides procedures for involving  
17 state governments in the initiation, development, selection, and implementation  
18 of response actions, pursuant to CERCLA. The NCP works in conjunction with  
19 the National Response Framework through Emergency Support Function 10 –  
20 Oil and Hazardous Material Response.

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**1 Post-Katrina Emergency Management Reform Act**

2 *The Post-Katrina Emergency Reform Act of 2006 (Public Law 109-295)*

3 amended the Homeland Security Act. This law established the FEMA

4 Administrator as responsible for managing the Federal response to emergencies

5 and disasters, and for reporting directly to the President. The Secretary of

6 Homeland Security is the Principal Federal Official, but has no direct authority

7 for response or coordination. This law also amends the Stafford Act to allow

8 FEMA, in the absence of a specific request or Presidential declaration, to direct

9 other Federal agencies to provide resources and support where necessary to save

10 lives, prevent human suffering, or mitigate severe damage.

**11 Presidential Policy Directive-8**

12 *Presidential Policy Directive-8 (PPD-8), National Preparedness, March 30,*

13 *2011* is intended to strengthen all-of-Nation preparedness. PPD-8 directs the

14 Secretary of Homeland Security to develop a national preparedness goal and a

15 national preparedness system in coordination and consultation with other federal

16 departments and agencies, state, local, tribal, and territorial governments, private

17 and non-profit sectors, and the public. The national preparedness system is

18 comprised of:

- 19 • National planning frameworks for the prevention, protection, mitigation,  
20 response to, and recovery from national threats. These frameworks are  
21 similar and complementary to the National Response Framework (NRF).
- 22 • Corresponding Federal interagency operational plans.
- 23 • Guidance for the national interoperability of personnel and equipment.
- 24 • Guidance for business, community, family, and individual preparedness.

**25 All-Hazards Coordination and Cooperation**

26 In an actual or potential incident of national significance that is not encompassed

27 by the Stafford Act, the President may instruct a federal department or agency,

28 subject to any statutory limitations on the department or agency, to utilize the

29 authorities and resources granted to it by Congress. In accordance with

30 Homeland Security Presidential Directive-5, federal departments and agencies

31 are expected to provide their full and prompt support, cooperation, available

32 resources, consistent with their own responsibilities for protecting national

33 security. Personnel assigned to all-hazard incidents may only perform duties

34 within agency policy, training, and capability.

**35 NWCG Role in Support, Coordination, and All-Hazards Response by****36 Wildland Fire Agencies**

37 The National Wildfire Coordinating Group has established guidelines to define

38 NWCG's role in the preparedness for, coordination of, and support to all-

39 hazards incidents.

## 1 General All-Hazards Guidelines for NWCG:

- 2 • The National Incident Management System (NIMS) is the foundation of all  
3 response. NWCG principles, procedures, and publications will comply with  
4 and support the NIMS. NWCG expects that all local, State, and Federal  
5 response agencies and organizations will comply with NIMS.
- 6 • NWCG uses the NIMS definition of All-Hazards, which includes wildland  
7 fire. This definition is:
  - 8 ○ All-Hazards: Describing an incident, natural or manmade, that warrants  
9 action to protect life, property, environment, and public health or  
10 safety, and to minimize disruptions of government, social, or economic  
11 activities.
- 12 • NWCG recognizes FEMA's role in overseeing the development,  
13 implementation, and maintenance of NIMS, which includes the Incident  
14 Command System (ICS) and its components (forms, core competencies,  
15 training, qualifications and standards, etc.).
- 16 • NWCG accepts the components of NIMS and will develop an endorsement  
17 process and additional qualifications requirements for positions having  
18 specific wildland fire application.
- 19 • NWCG recognizes and supports the use of position-specific qualifications  
20 from other NIMS compliant disciplines (law enforcement, structure fire,  
21 hazmat, etc.).
- 22 • NWCG supports the ongoing development and maintenance of wildland fire  
23 systems to be adaptable for all-hazards response.
- 24 • NWCG expects that all wildland fire personnel engaged in all-hazards  
25 response, whether at the national, regional or local level will base actions on  
26 both NWCG and agency policies, standards, doctrine, and procedures.
- 27 • NWCG member agencies ensure all personnel responding to all-hazards  
28 incidents are properly trained, equipped, and qualified for their assigned  
29 position.
- 30 • NWCG encourages all wildland fire agencies and personnel to receive  
31 appropriate preparedness training, focusing on general knowledge of all-  
32 hazards response, disaster characteristics, and the effects from these events  
33 on citizens and responders.
- 34 • NWCG encourages all wildland fire agencies and personnel to consider  
35 appropriate risk mitigation measures (e.g., vaccinations, personal protective  
36 equipment, etc.) prior to responding to all-hazards incidents.
- 37 • NWCG coordinates with member agencies to ensure accountability of  
38 wildland fire personnel during all-hazards response.

39 **USFS All-Hazards Guiding Principles and Doctrine**

40 The Forest Service has developed doctrine, known as the *Foundational Doctrine*  
41 *for All-Hazard Response*, outlining the guiding principles, roles, and  
42 responsibilities of the agency during all-hazards response. Forest Service  
43 responders and leadership are expected to follow this doctrine, established to  
44 help ensure the safest response conditions possible.

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- 1 The following principles encompass the guidelines, roles, and responsibilities  
2 established in this doctrine:
- 3 • The intent of Forest Service all-hazard response and support is to protect  
4 human life, property, and at-risk lands and resources *while imminent threats*  
5 *exist*.
  - 6 • Personnel should be prepared and organized to support all-hazard responses  
7 by providing trained personnel to utilize their inherent skills, capabilities,  
8 and assets, without requiring significant advanced training and preparation.  
9 Support to cooperators requiring wildland resources will be consistent with  
10 employee core skills, capabilities, and training.
  - 11 • As incidents move from the *response phase* to the *recovery phase*, there  
12 should be a shift to demobilizing agency resources.
  - 13 • Within all-hazard response environments, agency personnel may encounter  
14 situations in which there is an imminent threat to life and property outside  
15 of their Agency's jurisdiction. These environments include scenarios  
16 ranging from being first on scene at a vehicle accident, to committing  
17 Agency resources to protect a local community. Leaders are therefore  
18 expected to use their judgment and respond appropriately.
  - 19 • Wildland resources deployed to all-hazard responses will understand the  
20 dynamic and complex environment and utilize their leadership, training, and  
21 skills to adapt, innovate, and bring order to chaos.
  - 22 • Leaders are expected to operate within the incident organizational structure  
23 encountered on all-hazard responses. When such structure is absent, they  
24 will utilize National Incident Management System principles to assure safe  
25 and effective utilization of agency resources.
  - 26 • Leaders are expected to operate under existing policies and doctrine under  
27 normal conditions. On all-hazard responses, fire and aviation business and  
28 safety standards may have to be adapted to the situation to successfully  
29 accomplish the mission. When conflicts occur, employees will use their  
30 judgment, weigh the risk versus gain, and operate within the intent of  
31 Agency policy and doctrine.
  - 32 • All-hazard response will be focused on missions that we perform  
33 consistently and successfully. Workforce assignments will be directed  
34 toward the core skills developed through our existing training and  
35 curriculum.
  - 36 • Agency employees will be trained to operate safely and successfully in the  
37 all-hazard environment. Preparedness training will focus on gaining general  
38 knowledge of all-hazard response, disaster characteristics, as well as the  
39 effects from these events on citizens and responders.
  - 40 • Specific operational skills will be facilitated through the National Incident  
41 Management System, working with the responsible agencies who supply  
42 the technical specialists who, in turn, provide the specific skill sets. The  
43 Forest Service will not train or equip to meet every hazard.
  - 44 • Wildland employees are expected to perform all-hazard support as directed  
45 within their qualifications and physical capabilities. All employees have the

- 1 right to a safe assignment. The employee may suspend his or her work  
2 whenever any environmental condition—or combination of condition—  
3 become so extreme than an immediate danger is posed to employee health  
4 and safety that cannot be readily mitigated by the use of appropriate,  
5 approved protective equipment or technology.
- 6 • Acceptable risk is risk mitigated to a level that provides for reasonable  
7 assurances that the all-hazard task can be accomplished without serious  
8 injury to life or damage to property.
  - 9 • All-hazard incident-specific briefing and training will be accomplished  
10 *prior* to task implementation. This preparation will usually occur prior to  
11 mobilization where incident description, mission requirements, and known  
12 hazards are addressed. Key protective equipment and associated needs for  
13 these all-hazard tasks that wildland employees do not routinely encounter or  
14 perform will be identified. This will be done—and be in place—*prior* to  
15 task implementation.
  - 16 • Agency employees will be provided with appropriate vaccinations,  
17 credentials, and personal protective equipment to operate in the all-hazard  
18 environment to which they are assigned.
  - 19 • Additional information can be found in the Forest Service Foundational  
20 Doctrine for All-Hazard Response.  
21 [http://www.fs.fed.us/fire/doctrine/conferences/all\\_hazard\\_response.pdf](http://www.fs.fed.us/fire/doctrine/conferences/all_hazard_response.pdf)

#### 22 **All-Hazard Incident Management Teams (IMTs) and Other Non-Wildland** 23 **Fire IMTs**

24 Different entities have developed IMTs based on ICS core competencies under  
25 the National Incident Management System (NIMS). Federal agencies with IMTs  
26 include the U.S. Coast Guard, the Environmental Protection Agency, USDA's  
27 Animal and Plant Health Inspection Service (APHIS), DOI's National Park  
28 Service and U.S. Fish and Wildlife Service, and others. In addition, many states  
29 and metropolitan areas have developed All Hazard Incident Management Teams  
30 (AHIMTs). AHIMT consists of personnel from various disciplines (fire, rescue,  
31 emergency medical, hazardous materials, law enforcement, public works, public  
32 health and others) trained to perform the functions of the Command and General  
33 Staff at the Type 3 level. AHIMTs are often sponsored or administered by a  
34 state or local emergency management agency.

35 Many different entities that sponsor an AHIMT or other non-wildland fire IMT  
36 have requested that their personnel be allowed to "shadow" a wildland fire IMT  
37 positions during incidents (sometimes referred to as "field training" or "field  
38 mentoring"). The primary purpose of shadowing is to gain insight to complex  
39 incident management. All shadowing events should be coordinated with the  
40 receiving GACCs and the IC at an incident.

- 41 • **DOI** – <http://www.doi.gov/emergency/emergency-policy.cfm>

**1 International Wildland Fire Coordination and Cooperation****2 U.S. – Mexico Cross Border Cooperation on Wildland Fires**

3 In June of 1999, the Department of Interior and the Department of Agriculture  
4 signed a Wildfire Protection Agreement with Mexico. The agreement has two  
5 purposes:

- 6 • To enable wildfire protection resources originating in the territory of one  
7 country to cross the United States-Mexico border in order to suppress  
8 wildfires on the other side of the border within the zone of mutual  
9 assistance (10 miles/16 kilometers) in appropriate circumstances.
- 10 • To give authority for Mexican and U.S. fire management organizations to  
11 cooperate on other fire management activities outside the zone of mutual  
12 assistance.

13 National Operational Guidelines for this agreement are located in Chapter 40 of  
14 the *National Interagency Mobilization Guide* available online. These guidelines  
15 cover issues at the national level and also provide a template for those issues that  
16 need to be addressed in local operating plans. The local operating plans identify  
17 how the agreement will be implemented by the GACCs (and Zone Coordination  
18 Centers) that have dispatching responsibility on the border. The local operating  
19 plans will provide the standard operational procedures for wildfire suppression  
20 resources that could potentially cross the U.S. border into Mexico.

**21 U.S. – Canada, Reciprocal Forest Firefighting Arrangement**

22 Information about United States – Canada cross border support is located in  
23 Chapter 40 of the *National Interagency Mobilization Guide* available online.  
24 This chapter provides policy guidance, which was determined by an exchange of  
25 diplomatic notes between the U.S. and Canada in 1982. This chapter also  
26 provides operational guidelines for the Canada – U.S. Reciprocal Forest Fire  
27 Fighting Arrangement. These guidelines are updated yearly.

**28 U.S. – Australia/New Zealand Wildland Fire Arrangement**

29 Information about United States – Australia/New Zealand support is located in  
30 Chapter 40 of the *National Interagency Mobilization Guide* available online.  
31 This chapter provides a copy of the arrangements signed between the U.S. and  
32 the states of Australia and the country of New Zealand for support to one  
33 another during severe fire seasons. It also contains the AOP that provides more  
34 detail on the procedures, responsibilities, and requirements used during  
35 activation.

**36 International Non-Wildland Fire Coordination and Cooperation****37 International Disasters Support**

38 Federal wildland fire employees may be requested through the FS to support the  
39 U.S. Government's (USG) response to international disasters by serving on  
40 Disaster Assistance Response Teams (DARTs). A DART is the operational

- 1 equivalent of an ICS team used by the U.S. Agency for International  
2 Development's Office of Foreign Disaster Assistance (OFDA) to provide an on-  
3 the-ground operational capability at the site of an international disaster. Prior to  
4 being requested for a DART assignment, employees will have completed a  
5 weeklong DART training course covering information about:
- 6 • USG agencies charged with the responsibility to coordinate USG responses  
7 to international disaster.
  - 8 • The purpose, organizational structure, and operational procedures of a  
9 DART.
  - 10 • How the DART relates to other international organizations and countries  
11 during an assignment. Requests for these assignments are coordinated  
12 through the FS International Programs, Disaster Assistance Support  
13 Program (DASP).
  - 14 • DART assignments should not be confused with technical exchange  
15 activities, which do not require DART training.
- 16 More information about DARTs can be obtained at the FS International  
17 Program's website, <http://www.fs.fed.us/global/aboutus/dasp/welcome.htm>.

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## Chapter 9

### Fire Management Planning

#### Purpose

The purpose of fire management planning is to provide for firefighter and public safety, and outline fire management strategies and tactics that, when implemented, protect values and meet resource goals and objectives of the land and/or resource management plan. Planning strategically allows for responses to fire commensurate with risk, and movement towards desired conditions.

Fire planning products include a concise summary of information organized by fire management unit (FMU) or by other geospatially explicit representations of the landscape. These products should be updated as new information becomes available, as conditions on the ground necessitate updates, or when changes are made to the Land/Resource Management Plan (L/RMP).

Products may address: response to wildfire, hazardous fuels and vegetation management, burned area emergency stabilization and rehabilitation, prevention, community interactions and collaborative partnerships roles, and monitoring and evaluation of programs.

Fire Management planning efforts should address the vision and goals of the National Cohesive Wildland Fire Management Strategy (2014) (Cohesive Strategy).

The Cohesive Strategy Vision is “To safely and effectively extinguish fire, when needed; use fire where allowable; manage our natural resources; and as a Nation, live with wildland fire.”

The Cohesive Strategy goals are:

- Restore and maintain landscapes
- Fire-adapted communities
- Wildfire response

#### Policy

“Fire, as a critical natural process, will be integrated into land and resource management plans and activities on a landscape scale and across agency boundaries” (*Review and Update of the Federal Wildland Fire Management Policy, January 2001*).

Fire Management plans should be developed collaboratively between federal agencies and tribal, local, and state agencies to accomplish resource and protection objectives.

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- 1 Every area with burnable vegetation must have an approved Fire Management  
2 Plan (FMP). Fire Management Plans are strategic plans that define a program to  
3 manage wildland fires based on the area's approved land management plan.  
4 When practical, Fire Management Plans (FMP) should contain mutually  
5 developed objectives for managing fires that cross jurisdictional boundaries.
- 6 Fire Management Plans must provide for firefighter and public safety; include  
7 fire management strategies, tactics, and alternatives; address values to be  
8 protected and values at risk; address the location and conditions under which  
9 resource and protection objectives can be met; consider public health issues; and  
10 be consistent with resource management objectives, activities of the area, and  
11 environmental laws and regulations. Fire Management Plans should be based  
12 upon the best available science.

### 13 **Agency Planning Guidance**

#### 14 **Department of Interior (DOI)**

- 15 Fire Management Plans must be consistent with the DOI Interagency Fire  
16 Management Plan Framework and subsequent bureau direction. Fire  
17 Management Plan content may be represented in spatial, text-based and/or  
18 digital formats.

- 19 • The *DOI framework* is available at  
20 [http://www.nwcg.gov/committees/interagency-fire-planning-](http://www.nwcg.gov/committees/interagency-fire-planning-committee/resources)  
21 [committee/resources](http://www.nwcg.gov/committees/interagency-fire-planning-committee/resources).  
22 ○ *BLM – FMP Template* is available at  
23 <http://web.blm.gov/internal/fire/fpfm/planning.html>.  
24 ○ *NPS – FMP Template and information* is available at  
25 [http://famshare.inside.nps.gov/wildlandfire/budgetandplanning/fireman-](http://famshare.inside.nps.gov/wildlandfire/budgetandplanning/firemanagementplanning/firemanagementplans/default.aspx)  
26 [agementplanning/firemanagementplans/default.aspx](http://famshare.inside.nps.gov/wildlandfire/budgetandplanning/firemanagementplanning/firemanagementplans/default.aspx).

#### 27 **U.S. Forest Service (FS)**

- 28 By the 2016 fire season, Forest Service FMPs will be replaced with a  
29 combination of enhanced Spatial Planning contained in the Wildland Fire  
30 Decision Support System (WFDSS) and the Fire Management Reference  
31 System (FMRS), a collection of plans required for fire program management,  
32 such as aviation, operations, dispatch, and fire danger operating plan products.  
33 Fire Management Planning will be a continuing effort to ensure that guidance  
34 represented spatially in WFDSS and the FMRS are consistent with LRMP  
35 direction, reflecting available fire response options to move from current to  
36 desired conditions.

- 37 The FS has replaced the FSH 5109.19 with a Fire Management Planning Guide  
38 that further describes Spatial Fire Planning and the Fire Management Reference  
39 System (FMRS). As allowed in the Land and Resource Management Plan  
40 (LRMP), fire response strategies should be consistent with the Cohesive

- 1 Strategy and developed in collaboration with adjoining land managers. This  
2 Guide is at <http://fsweb.wo.fs.fed.us/fire/fmp/>.

### 3 Other Resources

- 4 For information on utilizing the Spatial Fire Planning method in WFDSS, see  
5 the WFDSS Spatial Fire Planning Guide located on the WFDSS Training page  
6 at [http://wfdss.usgs.gov/wfdss/WFDSS\\_Training.shtml](http://wfdss.usgs.gov/wfdss/WFDSS_Training.shtml).

### 7 Concepts and Definitions

- 8 For further clarification of concepts and definitions that follow, refer to:  
9 *Terminology Updates Resulting from Release of the Guidance for the*  
10 *Implementation of Federal Wildland Fire Management Policy (2009)*, and the  
11 *Guidance for Implementation of Federal Wildland Fire Management Policy,*  
12 *February 13, 2009.*

### 13 Land/Resource Management Plan

- 14 A document prepared with public participation and approved by the Agency  
15 Administrator that provides guidance and direction for land and resource  
16 management activities for an administrative area. The L/RMP may identify fire's  
17 role in a particular area and for a specific benefit, or may contain general  
18 statements regarding the role of fire across the land management unit. Guidance  
19 contained in the L/RMP provides the basis for the development of strategic fire  
20 management objectives and the fire management program in the designated  
21 area.

### 22 Fire Management Plan

- 23 A Fire Management Plan (FMP) identifies and integrates all wildland fire  
24 management and associated activities within the context of the approved  
25 L/RMP. The FMP is supplemented by operations plans, including but not  
26 limited to preparedness plans, pre-planned dispatch plans, fuels treatment plans,  
27 and prevention plans. FMPs assure that wildland fire management goals and  
28 objectives are coordinated.

### 29 Fire Management Unit

- 30 The purpose of Fire Management Units (FMUs) in planning is to assist in  
31 organizing information in complex landscapes. The process of creating FMUs  
32 divides the landscape into smaller geographic areas to more easily describe  
33 physical/biological/social characteristics and frame associated planning  
34 guidance based on these characteristics.

### 35 Compliance

- 36 Compliance generally includes the full range of considerations and procedures  
37 defined by each agency to comply with laws such as (but not limited to); the  
38 National Environmental Planning Act (NEPA), Section 106 of the Archeological

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- 1 Resources Protection Act, Section 7 of the Endangered Species Act, Clean Air
- 2 Act, Wilderness Act, Executive Orders, etc.
- 3 **Spatial Fire Management Plan (SFMP)**
- 4 A Spatial Fire Management Plan is a strategic plan that contains text based and
- 5 spatially represented information that guides a full range of fire management
- 6 activities and is supported by a land or resource management plan.
- 7 **Spatial Fire Management Plan Mapsheet**
- 8 A collection of one or more tables, graphics, maps or other information on a
- 9 single page or poster.
- 10 **Spatial Fire Management Plan Map Set**
- 11 A compilation of all the mapsheets that make up the SFMP.
- 12 **Connection to Other Plans**
- 13 Fire Management Plans are tiered from Land/Resource Management Plans. DOI
- 14 plans (e.g., operational, preparedness, and implementation plans) tier from Fire
- 15 Management Plans. Forest Service plans tier to decisions made in the
- 16 Land/Resource Management Plans.

## Chapter 10 Preparedness

### 3 Preparedness Overview

4 Fire preparedness is the state of being ready to provide an appropriate response  
5 to wildland fires based on identified objectives and is the result of activities that  
6 are planned and implemented prior to fire ignitions.

7 Preparedness requires:

- 8 • Identifying necessary firefighting capabilities;
- 9 • Implementing coordinated programs to develop those capabilities;
- 10 • A continuous process of developing and maintaining firefighting  
11 infrastructure;
- 12 • Predicting fire activity;
- 13 • Implementing prevention activities;
- 14 • Identifying values to be protected;
- 15 • Hiring, training, equipping, pre-positioning, and deploying firefighters and  
16 equipment;
- 17 • Evaluating performance;
- 18 • Correcting deficiencies; and
- 19 • Improving operations.

20 Preparedness activities should focus on developing interagency response  
21 capabilities that will result in safe, effective, and efficient fire operations aligned  
22 with risk-based fire management decisions.

23 Preparedness activities will be consistent with direction in the approved Land and  
24 Resource Management Plan (LRMP) and in the Fire Management Plan (FMP).

### 25 Preparedness Planning

26 At the local level, preparedness planning and the resultant activities begin with a  
27 Fire Danger Operating Plan (FDOP), which includes a number of other plans  
28 that result in coordinated actions based on the fire situation.

29 References, templates, and other supporting materials pertaining to the FDOP  
30 process and related operationally-focused preparedness plans can be found at  
31 <http://www.wfas.net/nfdrs2016>.

32 Outputs from the FDOP process are used to support decisions found in  
33 many components of preparedness plans. These actions will ensure a unit  
34 is appropriately prepared to react to new and emerging wildfire incidents.

- 1 Preparedness plans should include, but are not limited to:
- 2 • Fire Danger Operating Plan
  - 3 • Preparedness Level Plan
  - 4 • Initial Response/Pre-planned Dispatch Plan
  - 5 • Step-up/Staffing Plan
  - 6 • Fire Prevention/Mitigation Plan (as specified by agency requirements)
  - 7 • Closure/Restriction Plan (as specified by agency requirements)

#### 8 **Fire Danger Rating**

9 The National Fire Danger Rating System (NFDRS) and the Weather Information  
10 Management System (WIMS) are the principle applications used by the federal  
11 land management agencies to assess fire danger. At every scale, fire danger  
12 rating is a key consideration for staffing and prepositioning preparedness  
13 resources, regulating industrial activity, or placing restrictions on public lands.  
14 Because these assessments are used by and affect a wide variety of stake holders  
15 including federal and state agencies, local governments, industrial and other  
16 private entities, as well as the general public, participation in a recognized fire  
17 danger system and careful management of weather and fire data is vital to  
18 ensure accurate assessments and the consistent application of fire danger rating,  
19 especially for broader scale assessments.

20 The following requirements apply to all NFDRS-compliant weather stations  
21 managed in WIMS:

- 22 • For the primary fuel model (i.e., the first model listed in the WIMS station  
23 catalog):
    - 24 ○ Identify an appropriate Staffing index;
    - 25 ○ Identify the Staffing index breakpoints (i.e., the two highest breakpoint  
26 values and their associated percentiles\*); and
    - 27 ○ Identify the number of Decision Classes (i.e., the number of Staffing  
28 Levels).
  - 29 • If not already entered as the primary fuel model, also enter Fuel Model G:
    - 30 ○ Identify ERC as the Staffing index;
    - 31 ○ Identify the ERC breakpoints (i.e., the two highest ERC breakpoint  
32 values and their associated percentiles\*); and
    - 33 ○ Identify the number of Decision Classes (i.e., the number of Staffing  
34 Levels).
- 35 \* For units that have not performed detailed analysis to identify Fire  
36 Business Thresholds or Climatological Breakpoints, it is recommended  
37 to use the 90th and 97th percentiles as default values for these Critical  
38 Percentiles.
- 39 ■ *BLM – 80<sup>th</sup> and 95<sup>th</sup> percentiles*

**1 Communication of Fire Danger**

2 Daily Observed and Forecasted Fire Danger Outputs will be:

- 3 • Communicated daily to local fire personnel to aid in situational awareness;
- 4 and
- 5 • Should include the Staffing index and/or index/component used.

6 Fire danger will be conveyed to the public using the five Adjective Fire Danger

7 Rating classes: low, moderate, high, very high, and extreme.

**8 Fire Danger Operating Plan Rating**

9 Ideally developed for interagency field-level operations (e.g., corresponding to  
10 the area within the jurisdiction of a third-tier dispatch center), the FDOP is an  
11 integral component of local fire management planning. The FDOP documents the  
12 analysis process and the development of decision points to be used for future weather  
13 and fire occurrence situations, based on an analysis of local conditions, historic  
14 weather, and historic fire occurrence. The analysis and decision points are developed  
15 using decision support tools such as the National Fire Danger Rating System  
16 (NFDRS), the Canadian Forest Fire Danger Rating System (CFFDRS) the  
17 Palmer Drought Index, live fuel moisture data, monthly or seasonal wildland fire  
18 outlooks, seasonal climate forecasts, and wildland fire risk analyses. The analysis  
19 of historic weather and fire occurrence is conducted utilizing a statistical software  
20 program, such as but not exclusive to FireFamily Plus (FFP), which calculates fire  
21 danger indices and can correlate them to historic fire occurrence. The FDOP process  
22 blends science, historical data, established processes, and local knowledge to provide  
23 a unified framework for local interagency unit managers/administrators to make  
24 informed decisions that result in safe, efficient, and effective responses to fire  
25 situations.

26 Every field-level unit with a fire program should be covered by an FDOP and  
27 should participate in the planning process. FDOP developers should attend  
28 Intermediate NFDRS (S-491) and preferably, the Advanced NFDRS level courses.  
29 Units are encouraged to seek the participation of and review by NFDRS or  
30 CFFDRS Subject Matter Experts when developing the FDOP. Established  
31 FDOPs should be monitored, reviewed annually, and updated as necessary to ensure  
32 they continue to meet the preparedness needs of the local units.

33 In conjunction with the analysis noted above, the FDOP also describes:

- 34 • Processes, such as daily input and output monitoring of the Weather Information  
35 Management System (WIMS) at <http://fam.nwcg.gov/fam-web/>;
- 36 • Tools that will be utilized to communicate fire danger information, such as Fire  
37 Danger PocketCards, or seasonal trends analysis; and
- 38 • Related products, such as staffing, dispatch, and preparedness level plans  
39 (which can be included as components of the FDOP or linked, if presented  
40 as separate plans).

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- 1 A FDOP template can be found at <http://www.wfas.net/nfdrs2016>.
- 2 Required minimum content for the FDOP includes the following components:
- 3 • **Roles and Responsibilities**  
4 This section of the FDOP defines the roles and responsibilities for those  
5 responsible for the development, maintenance and daily implementation of  
6 the plan, program management related to the plan, and associated training.
  - 7 • **Fire Danger Area Inventory**  
8 This section of the FDOP presents the inventory of the basic components of  
9 the FDOP area, which will describe the general area, including the  
10 administrative units involved in the planning process. The fire danger area  
11 inventory will include:
    - 12 ○ Fire history, as well as identification of fire/ignition issues specific to  
13 the area;
    - 14 ○ Description of vegetation/fuels, topography, and weather/climatology  
15 resulting in the delineation of specific Fire Danger Rating Areas  
16 (FDRAs), which are broad landscapes (typically, on the scale of tens or  
17 hundreds of thousands of acres each) that are considered to have  
18 relatively homogeneous fire danger;
    - 19 ○ The existing weather station network and identification of any  
20 additional weather station system needs; and
    - 21 ○ Validation that each Remote Automated Weather Station (RAWS)  
22 meets the requirements of the *Interagency Wildland Fire Weather*  
23 *Station Standards and Guidelines* (PMS 426-3).
  - 24 • **Operational Procedures**  
25 This section of the FDOP establishes the procedures used to gather and  
26 process data in order to integrate fire danger rating information into  
27 decision processes. The network of fire weather stations whose observations  
28 are used to determine fire danger ratings is identified. Station maintenance  
29 responsibilities and schedules are defined. Include:
    - 30 ○ Daily weather processing schedule and procedures;
    - 31 ○ Daily communication schedule and modes;
    - 32 ○ Seasonal station catalog adjustment schedule and responsible  
33 personnel;
    - 34 ○ Annual review of decision points and responsible personnel; and
    - 35 ○ Periodic review of PocketCards or other communication methodology  
36 and responsible personnel.
  - 37 • **Decision Point Analysis**  
38 This section of the FDOP describes the analysis of climatological  
39 breakpoints and fire business thresholds that trigger changes in fire danger-  
40 related decisions within an FDRA. Decision points are identified using  
41 statistical analysis software such as but not limited to FFP. Distinct  
42 selections of fuel model and fire danger index/component (NFDRS or  
43 CFFDRS) are appropriate for different management decisions (such as  
44 staffing, initial response, or industrial and public restrictions).

Because Fire Business Thresholds correlate periods of historical fire danger and fire occurrence, they generally provide the best decision support and are appropriate for identifying Staffing Levels, Dispatch Levels, fire restrictions, Preparedness Levels, fire prevention activities, and other specific readiness actions. Climatological Breakpoints, which are expressed as percentiles, may be appropriate as decision points for longer term decisions and general preparedness activities, such as seasonal staffing start/end dates or contract aircraft availability periods.

*Note: WIMS relies exclusively on Climatological Breakpoints to compute Staffing Level and Adjective Rating. If Fire Business Thresholds are used as decision points, Staffing Level and Adjective Rating must be computed outside of WIMS*

- **Fire Danger-based Decisions**

This section of the FDOP describes the decision points used in Step-up/Staffing Plans, Initial Response/Pre-planned Dispatch Plans, Preparedness Level Plans, Prevention Plans (which include how Adjective Fire Danger Ratings are determined and will be applied), Closure/Restriction Plans, etc. It should include the rationale for the fuel model and index/component selection and the corresponding decision points for each of those plans. The plans may be included in the FDOP or be stand-alone plans.

## **Preparedness Level Plans**

Preparedness Level Plans are required at the national, state/regional, and local levels. These plans address the five Preparedness Levels (1-5) and provide management direction based on identified levels of burning conditions (fire danger), fire activity, resource commitment/availability, such as incident management teams assigned, and other considerations (in contrast to Staffing Levels, which typically only consider fire danger, as described below). Preparedness Level Plans may be developed by a state/regional office for agency-specific use.

Supplemental preparedness actions to consider include, but are not limited to, the following items:

- Management briefings, direction, and considerations;
- Support function: consideration given to expanded dispatch activation and other support needs (procurement, supply, ground support, and communication);
- Support staff availability outside of fire organization;
- Fire danger/behavior assessment;
- Fire information – internal and external;
- Multi-agency coordination group/area command activation; and
- Prescribed fire direction and considerations.

- 1 Refer to the *National Interagency Mobilization Guide* and GACC Mobilization
- 2 Guides for more information on Preparedness Level Plans.

### 3 **Step-up/Staffing Plans**

- 4 Step-up/Staffing Plans are designed to direct incremental preparedness actions at
- 5 the local level in response to changing fire danger. Each plan should address the
- 6 unit's chosen number of Staffing Levels, and the corresponding actions to
- 7 consider for those changing fire danger conditions, as reviewed annually. The
- 8 Step-up/Staffing Plan should be based on analysis completed as part of the unit's
- 9 FDOP and the analysis rationale, if not the entire plan, should be included as
- 10 part of the FDOP.

### 11 **Staffing Level**

- 12 The Staffing Level should be used to guide daily internal fire operational
- 13 decisions at the local level. The Staffing Level specifies appropriate daily
- 14 staffing for initial response resources, such as when to implement 7-day coverage
- 15 and adjusted work schedules, and the number of personnel committed to initial
- 16 attack resources (in contrast to the Initial Response/Pre-planned Dispatch Plan –
- 17 described below – that specifies the number of resources dispatched to an
- 18 incident). Staffing Level helps define “How ready to be today?” A unit can
- 19 operate with 3 to 9 levels of staffing. Most units typically use 5 (1, 2, 3, 4, 5) or 6
- 20 (1, 2, 3L, 3H, 4, 5) levels. The use of Fire Business Thresholds to determine
- 21 Staffing is encouraged; however, they must be computed outside of the
- 22 WIMS.

- 23 The Step-up/Staffing Plan describes pre-approved escalating responses that are
- 24 in the FDOP and FMP. A Step-up/Staffing Plan should also include recurring
- 25 supplemental preparedness actions designed to enhance the unit's fire
- 26 management capability during short periods (Fourth of July, or other pre-
- 27 identified events) where staffing normally needs to be increased to meet initial
- 28 attack, prevention, or detection needs.

- 29 The Staffing Plan should also consider supplemental staffing actions such as, but
- 30 not limited to, the following items:

- 31 • Fire prevention actions, including closures/restrictions, media messages,
- 32 signing, and patrolling;
- 33 • Prepositioning or augmentation of suppression resources;
- 34 • Cooperator discussion and/or involvement;
- 35 • Safety considerations: safety messages, safety officer;
- 36 • Increased initial attack dispatch staffing; and
- 37 • Increased detection activities.

- 38 In contrast to staffing actions established for the normal range of conditions,
- 39 severity is a longer duration condition that cannot be adequately dealt with under

- 1 normal staffing, such as a killing frost converting live fuel to dead fuel or drought  
2 conditions. Severity is discussed later in this chapter.

### 3 **Initial Response/Pre-planned Dispatch Plans**

- 4 Local-level Initial Response/Pre-planned Dispatch Plans, also referred to as run  
5 cards, specify the fire management response (e.g., number and type of  
6 suppression assets to dispatch) within a defined geographic area to an unplanned  
7 ignition, based on fire weather, fuel conditions, fire management objectives, and  
8 resource availability.

- 9 Fire Management Officers will ensure that Initial Response/Pre-planned  
10 Dispatch Plans are in place, utilized, and provide for initial response  
11 commensurate with guidance provided in the FMP and/or LRMP. Initial  
12 Response/Pre-planned Dispatch Plans will reflect agreements and annual  
13 operating plans, and will be reviewed annually prior to fire season. These plans  
14 may be modified as needed during fire season to reflect the availability of  
15 national, prepositioned, and/or severity resources.

### 16 **Fire Prevention/Mitigation Plans**

- 17 Unit-level Fire Prevention/Mitigation Plans may be required and completed by  
18 conducting a wildland fire prevention/mitigation assessment. The purpose of the  
19 plan is to reduce unwanted human-caused ignitions, thereby reducing wildland  
20 fire damages and losses, unnecessary risks to firefighters, and suppression costs.  
21 As fire danger moves from low to extreme, as defined in the FDOP, and/or  
22 human activity increases, prevention and mitigation activities must be increased  
23 to maintain effectiveness.

- 24 The Prevention/Mitigation Plan outlines how Adjective Fire Danger Ratings are  
25 determined; i.e., the fire danger fuel model and index and/or components used  
26 and whether they are computed within or outside WIMS, are communicated to  
27 the public, and applied, in terms of responsible personnel and assigned activities.  
28 Prevention activities are intended to prevent the occurrence of unwanted human-  
29 caused fires and include, but are not limited to:

- 30 • Education (signage, school programs, radio and news releases, recreation  
31 contacts, local business contacts, exhibits); and
- 32 • Public/industrial program monitoring (firewood cutting, logging, mining,  
33 power line maintenance).
  - 34 ○ *BLM – Refer to the BLM Wildland Fire Prevention, Education and*  
35 *Mitigation Planning Guide available at*  
36 *[http://www.blm.gov/nifc/st/en/prog/fire/fuelsmgmt/fire\\_prevention\\_and.](http://www.blm.gov/nifc/st/en/prog/fire/fuelsmgmt/fire_prevention_and.html)*  
37 *html.*
  - 38 ○ *NPS – Only units that experience more than an average of 26 human-*  
39 *caused fires per ten-year period are required to develop a fire*  
40 *prevention plan.*

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- 1     ○ *FWS – Prevention assessment determines requirement for prevention*
- 2         *plan. Refer to Fire Management Handbook Chapter 10.*
- 3     ○ *FS – Refer to FSM 5110.*

#### 4 **Fire Danger PocketCard for Firefighter Safety**

5 Fire Danger PocketCards provide, through a graphical interpretation of historic  
6 fire danger, a means for firefighters to understand the fire potential for a given  
7 local area during any day of the fire season. PocketCards apply to areas of  
8 uniform fire danger rating, known as FDRAs, which should be developed  
9 through an interagency FDOP process (if FDRAs aren't defined, PocketCards  
10 may be developed based on other areas of like fire danger). The PocketCard can  
11 also be an ideal tool for local seasonal tracking of fire season severity with the  
12 addition of daily indices (see "Local Unit Seasonal Tracking" section). The Fire  
13 Danger PocketCards must adhere to the NWCG standard located at  
14 <http://fam.nwcg.gov/fam-web/pocketcards/default.htm>.

15 PocketCards should be updated following a significant fire season but;  
16 otherwise, based on the length of the station or Special Interest Group (SIG)  
17 dataset:

- 18 • 10 years or less of historic weather data, update PocketCard annually;
- 19 • 11-14 years, update every other year;
- 20 • 15 years or more, update every 3 years.

21 In all cases, a high quality database should be used; i.e., 5 years of poor data and  
22 10 years of good data does not equal 15 years of quality data.

23 Compliance with the standard, including quality, currency, and application of  
24 the PocketCard, is the responsibility of the local fire management unit.

- 25 • *BLM – Units will maintain Fire Danger PocketCards and ensure they are*  
26 *available to all personnel.*
- 27 • *FS – Obtain Regional certification for Fire Danger PocketCards.*  
28 *Distribute PocketCards to each fireline supervisor on Type 3, 4, and 5*  
29 *wildfires. Units have the option to do more frequent updates if they choose*  
30 *to do so.*

31 The NWCG standards for updating and posting the cards can be found at  
32 <http://fam.nwcg.gov/fam-web/pocketcards/default.htm>.

#### 33 **Managing Weather Data in WIMS**

34 Fire danger requires continual management in order to produce accurate results  
35 that are applied in a timely manner. Some daily weather observation variables  
36 (such as state of the weather) must be manually validated and published daily.  
37 This procedure is essential for the calculation of daily and forecasted fire danger  
38 outputs in WIMS and ensures weather data storage in the National Fire and

- 1 Aviation Management (FAMWeb) Database. These efforts are coordinated with  
2 local National Weather Service fire weather meteorologists to provide timely  
3 forecasted fire danger outputs.
- 4 In addition to daily weather management, certain WIMS data requires periodic  
5 adjustment. The following should be adjusted seasonally or as appropriate:
- 6 • Live fuel moisture model inputs, including herbaceous vegetation stage,  
7 green-up and freeze date, season codes, greenness factors.
  - 8 • Dead fuel moisture model inputs, including the snow flag and starting 1000  
9 hour and X1000 fuel moisture and KBDI values.
- 10 Decision points should be reviewed annually and adjusted, as appropriate, based  
11 on statistical analysis. If decision points are adjusted, PocketCards should also be  
12 validated and updated as necessary.

### 13 Management Actions for Remote Automated Weather Stations (RAWS)

#### 14 Noncompliance Report

15 A weekly report from Wildland Fire Management Information (WFMI) weather  
16 module displays RAWS that are more than 1 year and 45 days past their annual  
17 maintenance date. Fire weather stations are to be maintained annually per  
18 Interagency Wildland Fire Weather Station Standards and Guidelines (PMS  
19 426-3). The report is widely distributed by email and available at  
20 <http://raws.fam.nwcc.gov/nfdrs.html>. If a RAWS is on the report, it has either not  
21 had annual maintenance, or the documentation for annual maintenance has not  
22 been completed in WFMI. Data from these RAWS should not be used or used  
23 with caution.

#### 24 Portable RAWS

25 Fire managers should ensure that locally held portable RAWS are maintained  
26 prior to use. Non-maintained portable RAWS will not be activated for data  
27 processing through WFMI weather.

- 28 • *BLM – Refer to Chapter 2 for more guidance.*

### 29 Predictive Service Areas

30 Predictive Service Areas (PSA) are sub-geographic areas of similar climate, fuels  
31 and topography defined by Geographic Area Coordination Center (GACC)  
32 meteorologists generally for forecasting purposes. The PSAs are also used to  
33 display current and forecasted conditions at the national and Geographic Area  
34 level, such as maps showing 7-day Significant Fire Potential and statistics graphs  
35 of select indices and fuel moistures.

36 While PSAs are defined using similar criteria as FDRAs, the PSA-based products  
37 are intended for longer range prediction purposes and strategic planning at the  
38 sub-geographic scale, and FDRA-based products are intended to guide daily

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- 1 operational decisions at the unit level. Optimally, FDRAs should nest within
- 2 PSAs to ensure better congruence with their closely-related products.

### 3 **National Predictive Services Fire Potential Outlooks and Advisories**

#### 4 **National Wildland Significant Fire Potential Outlook**

- 5 The National Wildland Significant Fire Potential Outlook is prepared and
- 6 distributed by NICC on the first day of each month. The report consists of
- 7 outlooks for the next four months, divided into one month plus one month plus
- 8 two month periods. Maps for each period display areas of below normal,
- 9 normal, and above normal significant fire potential. The second (one month) and
- 10 third (two months) periods will also show trends of increasing/decreasing to and
- 11 from above and below normal. A brief synopsis of the current and predicted
- 12 national situation is included in the report. National Wildland Significant Fire
- 13 Potential Outlooks utilize information from individual GACC Predictive
- 14 Services units, as well as other sources of climate, weather and fire danger data.
- 15 The outlook will be posted on the first day of each month to the NICC
- 16 Predictive Services webpage.

#### 17 **7-Day Significant Fire Potential Outlook**

- 18 The 7-day Significant Fire Potential Outlook provides a week-long projection of
- 19 fuels dryness, weather, fire potential, and firefighting resources information. It is
- 20 issued daily when a Geographic Area is at Preparedness Level 2 or higher (not
- 21 including support-only periods). Each Geographic Area's Predictive Services
- 22 unit will determine whether to produce a morning or afternoon routine issuance.
- 23 Issuance times for each Area's outlook can be found in the Geographic Area
- 24 Mobilization Guide and/or in its National Weather Service/Predictive Services
- 25 Annual Operating Plan.

- 26 All the Geographic Area outlooks are viewable from
- 27 <http://psgeodata.fs.fed.us/7day/>. The outlooks produced by the 10 Geographic
- 28 Area Predictive Services units are consolidated into a National 7-day Significant
- 29 Fire Potential map located at <http://psgeodata.fs.fed.us/staticmap.html>.

#### 30 **Fuel and Fire Behavior Advisories**

- 31 Predictive Services and Coordination staff at all levels should be involved with
- 32 the issuance of any fuels/fire behavior advisories covering a large percentage of
- 33 their Geographic Area(s) so that they can carefully consider both the content and
- 34 intended audience of the messages.

#### 35 **Local Unit Seasonal Tracking**

- 36 As identified in the FMP and/or FDOP, each unit selects and compares to
- 37 normal, the current value and seasonal trend of one (or more) of the following
- 38 indicators which are most useful in predicting fire season severity and duration
- 39 in its area. By downloading daily weather observations and adding them to the

1 database, FFP or similar statistical analysis software can be used to produce the  
2 current NFDRS, CFFDRS, and fuel moisture products, including statistical  
3 graphs of various indices and components such as:

- 4 • NFDRS (or CFFDRS) index and/or component values;
- 5 • Palmer Drought or Keetch-Byram Drought Index;
- 6 • 1000-hour fuel moisture;
- 7 • 100-hour fuel moisture;
- 8 • Live fuel moisture; and/or
- 9 • Growing Season Index.

10 The seasonal trend of each selected indicator is graphically compared to normal  
11 and all-time worst (for the historical period analyzed). This comparison is  
12 updated regularly and posted in dispatch and crew areas. The mechanism that is  
13 recommended for comparing and displaying these items is a PocketCard and/or  
14 fire danger seasonal graphs, which have been developed and used at the local  
15 unit to inform and educate firefighters on local conditions. PocketCards and  
16 seasonal fire danger graphs should use the same index and fuel model to display  
17 information so that the two can be easily compared.

18 Any local seasonal trends of indices/components or fuel moisture values should  
19 be communicated to the GACC Predictive Services unit to augment their  
20 assessments. Trends should be monitored throughout the fire season and  
21 communication should be on-going, particularly when significant changes in key  
22 indicators occur.

### 23 **Fire Severity Funding**

24 Fire severity funding is the authorized use of suppression operations funds  
25 (normally used exclusively for suppression operations and distinct from  
26 preparedness funds) for extraordinary preparedness activities that are required  
27 due to:

- 28 • FMP, FDOP, or Annual Operating Plan criteria that indicate the need for  
29 additional preparedness/suppression resources. The plan(s) should identify  
30 thresholds for severity needs.
- 31 • Anticipated fire activity will exceed the capabilities of local resources.
- 32 • Fire seasons that either start earlier or last longer than identified in the  
33 FDOP.
- 34 • An abnormal increase in fire potential or danger not planned for in existing  
35 preparedness plans.

36 Agency established decision points or thresholds will be used to determine  
37 severity funding needs.

38 The objective of fire severity funding is to appropriately manage risk and adjust  
39 planned specific actions and staffing in excess of the budgeted program to  
40 improve initial response capabilities and wildfire prevention activities, when

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- 1 extraordinary weather and fire conditions may result in the occurrence, or
- 2 substantial threat of occurrence, of wildfires with significant damage potential.
- 3 Fire severity funding is not intended to:
- 4 • Raise preparedness funding levels to cover differences that may exist
- 5 between funds actually appropriated and those identified in the fire planning
- 6 process.
- 7 ○ *BLM – Refer to Chapter 2 for more guidance.*
- 8 ○ *NPS/FWS/FS – Mitigate threats to Threatened and Endangered*
- 9 *Species habitat, wildland/urban interface, or other values identified in*
- 10 *Land and Resource Management Plans.*

#### 11 Typical Uses

12 Fire severity funds are typically used to:

- 13 • Increase prevention activities;
- 14 • Temporarily increase firefighting staffing;
- 15 • Pay for standby;
- 16 • Preposition initial attack suppression forces;
- 17 • Provide additional aerial reconnaissance; and
- 18 • Provide for standby aircraft availability.

#### 19 Authorization

20 Authorization to use severity funding is provided in writing based on a written  
21 request with supporting documentation. Authorization is on a line item basis and  
22 comes with a severity cost code. Agencies will follow their administrative  
23 procedures for issuing severity cost codes. Authorization is provided for a  
24 maximum of 30 days per request; however, regardless of the length of the  
25 authorization, use of severity funding must be terminated when abnormal  
26 conditions no longer exist. If the fire severity situation extends beyond the 30-  
27 day authorization, the Unit/State/Region must prepare a new severity request.

#### 28 State/Regional-Level Fire Severity Funding

29 Each fiscal year the national office will provide each state/region with funding  
30 and a severity cost code for state/regional short-term severity needs (e.g., wind  
31 events, cold dry front passage, lightning events, and unexpected events such as  
32 off road rallies, cultural events) that are expected to last less than one week.  
33 Expenditure of these funds is authorized by the State/Regional Directors at the  
34 written request of the Agency Administrator. State/Regional Directors are  
35 responsible and accountable for ensuring that these funds are used only to meet  
36 severity funding objectives and that amounts are not exceeded. The national  
37 office will notify the State/Regional Director, State/Regional Budget Officer,  
38 and the State/Regional FMO when the severity cost code is provided.

- 39 • *BLM – Refer to Chapter 2 and the BLM Fire Operations Website*  
40 *([http://web.blm.gov/internal/fire/fire\\_ops/index.html](http://web.blm.gov/internal/fire/fire_ops/index.html)) for additional short-*  
41 *term severity guidance.*

- 1 • *NPS – Parks have the authority to approve “Step-up” actions only, as*
- 2 *defined in their fire management plan. Regional offices approve severity*
- 3 *(long term – up to 30 days) for parks up to \$100,000 per severity event.*
- 4 • *FWS – Refer to the Fire Management Handbook Chapter 10 for additional*
- 5 *short-term severity guidance.*
- 6 • *FS – Severity funding direction is found in FSM 5130 and current FY*
- 7 *Program Direction.*

#### 8 **National-Level Fire Severity Funding**

9 National Agency Fire Directors or their delegates are authorized to allocate fire  
10 severity funding under specific conditions stated or referenced in this chapter.  
11 Expenditure of these funds is authorized by the appropriate approving official at  
12 the written request of the State/Regional Director. Approved severity funding  
13 will be used only for the preparedness activities and timeframes specifically  
14 outlined in the authorization, and only for the objectives stated above.

- 15 • *BLM – Refer to Chapter 2 and the BLM Fire Operations Website for*
- 16 *additional national severity guidance.*
- 17 • *NPS – National office approves all requests over \$100,000.*
- 18 • *FWS – Additional information may be found on the FWS Sharepoint site.*
- 19 • *FS – Regional offices approve all severity requests.*

#### 20 **Appropriate Fire Severity Funding Charges and Activities**

21 Severity funded personnel and resources will not use a severity cost code while  
22 assigned to wildfires. The wildfire FireCode number will be used instead.

#### 23 **Labor**

24 Appropriate labor charges include:

- 25 • Regular pay for non-fire personnel;
- 26 • Regular pay for seasonal/temporary fire personnel outside their normal fire
- 27 funded activation period; and
- 28 • Overtime pay for all fire and non-fire personnel.

29 Severity funded personnel and resources must be available for immediate initial  
30 attack regardless of the daily task assignment.

#### 31 **Vehicles and Equipment**

32 Appropriate vehicle and equipment charges include:

- 33 • GSA lease rate and mileage;
- 34 • Hourly rate or mileage for Agency owned vehicles; and
- 35 • Commercial rentals and contracts.

#### 36 **Aviation**

37 Appropriate aviation charges include:

- 38 • Contract extensions;
- 39 • The daily minimum cost for call when needed (CWN) aircraft;

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- 1 • Proposition flight time; and
  - 2 • Support expenses necessary for severity funded aircraft (facility rentals,
  - 3 utilities, telephones, etc.).
- 4 **Travel and Per Diem**
- 5 Severity funded personnel in travel status are fully subsisted by the government
- 6 in accordance with their agency regulations. Costs covered include:
- 7 • Lodging;
  - 8 • Government provided meals (in lieu of per diem);
  - 9 • Airfare (including returning to their home base);
  - 10 • Privately owned vehicle mileage (with prior approval); and
  - 11 • Other miscellaneous travel and per diem expenses associated with the
  - 12 assignment.
- 13 **Prevention Activities**
- 14 Appropriate prevention activities include:
- 15 • Funding Prevention Teams (Prevention teams will be mobilized as
  - 16 referenced in the *National Interagency Mobilization Guide*, Chapter 20).
  - 17 • Implementing local prevention campaigns, to include community risk
  - 18 assessments, mitigation planning, enforcement, outreach, and education
  - 19 • Augmenting patrols.
  - 20 • **Note:** Non-fire funded prevention team members should charge base 8 and
  - 21 overtime to the severity cost code for the length of the prevention activities
  - 22 assignment. Fire funded personnel should charge overtime only to the
  - 23 severity cost code for the length of the prevention activities assignment.
- 24 **Inappropriate Fire Severity Funding Charges**
- 25 • To cover differences that may exist between funds actually appropriated
  - 26 (including rescissions) and those identified in the fire planning process.
  - 27 • Administrative surcharges, indirect costs, fringe benefits.
  - 28 • Equipment purchases.
  - 29 • Purchase, maintenance, repair, or upgrade of vehicles.
  - 30 ○ *FWS/NPS – Severity-related repair and maintenance of agency*
  - 31 *vehicles and equipment may be funded by severity because they do not*
  - 32 *have a use rate covering these charges. These charges must be*
  - 33 *approved by the National Office.*
  - 34 • Purchase of radios.
  - 35 • Purchase of telephones.
  - 36 • Purchase of pumps, saws, and similar suppression equipment.
  - 37 • Aircraft availability during contract period.
  - 38 • Cache supplies that are normally available in fire caches.
  - 39 • Fixed ownership rate vehicle costs.

1 **Interagency Severity Requests**

2 Agencies working cooperatively in the same geographic area must work  
3 together to generate and submit joint requests, to minimize duplication of  
4 required resources, reduce interagency costs, and to utilize severity funded  
5 resources in an interagency manner. However, each agency should request funds  
6 only for its fair-share contributions or offsets for pooled, interagency  
7 resources/activities. The joint request should be routed simultaneously through  
8 each agency's approval system, and the respective approving official will issue  
9 an authorization that specifies allocations by agency.

10 **Requesting Fire Severity Funding**

11 Each agency has established severity funding request protocols. The completed  
12 and signed request is submitted from the State/Regional Director to the  
13 appropriate approving official as per the sequence of action outlined below.  
14 Authorizations will be returned in writing.

15 Severity funding request information for all agencies can be found at

16 [http://www.nifc.gov/policies/pol\\_severity\\_funding.html](http://www.nifc.gov/policies/pol_severity_funding.html).

17 **Sequence of Action and Responsible Parties for Severity Funding Requests**

Action	Responsible Party
In collaboration with interagency partners, as appropriate, identify and develop severity funding request.	Unit FMO
Review, modify, and approve (or reject) request. Forward to state/regional office.	Unit Agency Administrator
Review, modify, and recommend for approval (or rejection) unit request. Add state/regional needs and consolidate. Forward to State/Regional Director for approval within 48 hours.	State/Regional FMO
Review, modify, and approve (or reject) request. Forward to the appropriate National Fire Director/approving official within 48 hours. Notify the fire budget staff.	State/Regional Director
Review, modify, and approve (or reject) the request within 48 hours. Issue written authorization with a severity cost code.	Appropriate National Fire Director/Approving Official
Establish severity cost code in the appropriate finance system within 24 hours.	Applicable National Finance System
Notify unit office(s) and state/regional budget lead upon receipt of authorization.	State/Regional FMO

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Action	Responsible Party
Utilize severity cost code. Ensure that project expenditures are only used for authorized purposes. Continually assess needs and submit new requests/extensions as required.	Unit FMO
Maintain severity files, including requests, authorizations, and summary of expenditures and activities.	Unit/State/Regional/ National Offices

- 1 *FS – Severity codes are pre-established at the beginning of the fiscal year.*
- 2 *Requests are approved at the regional office with a copy to the national office*
- 3 *for those exceeding \$250,000 or including National Shared Resources.*
- 4 **Labor Cost Coding For Fire Severity Funded Personnel**
- 5 Fire preparedness personnel outside their normal activation period, employees
- 6 whose regular salary is not fire funded, and Administratively Determined (AD)
- 7 employees hired under an approved severity request should charge regular time
- 8 and approved non-fire overtime to the severity suppression operations
- 9 subactivity and the requesting office's severity cost code.
- 10 Fire preparedness personnel should charge their regular planned salary (base-
- 11 eight) to their budgeted subactivity using their home unit's location code.
- 12 Overtime associated with the severity request should be charged to the severity
- 13 suppression operations subactivity and the requesting office's severity cost code.
- 14 Regular hours worked in suppression operations will require the use of the
- 15 appropriate fire subactivity with the appropriate FireCode number. Overtime in
- 16 fire suppression operations will be charged to the suppression operations
- 17 subactivity with the appropriate FireCode number.
- 18 Employees from non-federal agencies should charge their time in accordance
- 19 with the approved severity request and the appropriate local and statewide
- 20 agreements. An interagency agreement for reimbursement must be established.
- 21 The Interagency Agreement for Fire Management can be used as a template.
- 22 **Documentation**
- 23 The unit/state/regional and national office will document and file accurate
- 24 records of severity funding activity. This will include complete severity funding
- 25 requests, written authorizations, and expenditure records.
- 26 **Severity Funding Reviews**
- 27 State/Regional and National offices should ensure appropriate usage of severity
- 28 funding and expenditures. This may be done as part of their normal agency fire
- 29 program review cycle.

**1 Qualification for Professional Liability Insurance Reimbursement**

2 Public Law 110-161 provides for reimbursement for up to one half of the cost  
3 incurred for professional liability insurance (including any administrative  
4 processing cost charged by the insurance company) for temporary fire line  
5 managers, management officials, and law enforcement officers.

6 To qualify for reimbursement, “temporary fire line managers” must meet one of  
7 the following three criteria:

- 8 • Provide temporary supervision or management of personnel engaged in  
9 wildland fire activities;
  - 10 • Provide analysis or information that affects a supervisor’s or manager’s  
11 decision about a wildland fire;
  - 12 • Direct the deployment of equipment for a wildland fire, such as a base camp  
13 manager, an equipment manager, a helicopter coordinator, or an initial  
14 attack dispatcher.
- 15     ○ *DOI* – See *Personnel Bulletin No. 08-07, March 20, 2008.*  
      ○ *FS* – Refer to <http://fsweb.asc.fs.fed.us/HR>

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## Chapter 11 Incident Management and Response

### National Response Framework

- The National Response Framework presents the guiding principles that enable all response partners to prepare for and provide a unified national response to disasters and emergencies—from the smallest incident to the largest catastrophe. The Framework establishes a comprehensive, national, all-hazards approach to domestic incident response. Information about the National Response Framework can be found at <http://www.fema.gov/national-response-framework>.

### National Incident Management System

- The National Wildfire Coordinating Group (NWCG) follows the National Incident Management System (NIMS), which is a component of the National Response Framework. NIMS provides a universal set of structures, procedures, and standards for agencies to respond to all types of emergencies. NIMS will be used to complete tasks assigned to the interagency wildland fire community under the National Response Framework.

### Incident Management and Coordination Components of NIMS

- Effective incident management requires:
- Command organizations to manage on-site incident operations.
  - Coordination and support organizations to provide direction and supply resources to the on-site organization.

### Incident Command System (ICS)

- The ICS is the on-site management system used in NIMS. The ICS is a standardized emergency management system specifically designed to provide for an integrated organizational structure that reflects the complexity and demands of single or multiple incidents, without being hindered by jurisdictional boundaries. ICS is the combination of facilities, equipment, personnel, communications, and procedures operating within a common organizational structure to manage incidents. ICS will be used by the agencies to manage wildland fire operations and all-hazard incidents.

### Wildfire Complexity

- Wildfires are typed by complexity, from Type 5 (least complex) to Type 1 (most complex). The ICS organizational structure develops in a modular fashion based on the complexity of the incident. Complexity is determined by completing a Risk and Complexity Assessment (Refer to samples in Appendix E and F).

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1 Incidents not meeting the recommended incident typing characteristics in the  
2 *Wildland Fire Incident Management Field Guide* (PMS 210) and later in this  
3 chapter should have a documented Risk and Complexity Assessment (Appendix  
4 E) verifying the command organization is appropriate.

#### 5 **Wildfire Risk and Complexity Assessment**

6 The National Wildfire Coordinating Group has adopted the Risk and  
7 Complexity Assessment (RCA) form as a replacement for the Incident  
8 Complexity Analysis form and the Organizational Needs Assessment form. The  
9 RCA assists personnel with evaluating the situation, objectives, risks, and  
10 management considerations of an incident and recommends the appropriate  
11 organization necessary to manage the incident. The Risk and Complexity  
12 Assessment is found in Appendix E.

13 The RCA also includes common indicators of incident complexity to assist  
14 firefighters and managers with determining incident management organizational  
15 needs. These common indicators are found in Appendix F.

16 The RCA can be used to populate the Relative Risk Assessment and  
17 Organization Assessment portions of the Wildland Fire Decision Support  
18 System (WFDSS).

19 The RCA is also available at <http://www.nwcg.gov/publications/210>.

#### 20 **Command Organizations**

##### 21 **Incident Command**

22 All wildfires, regardless of complexity, will have an Incident Commander (IC).  
23 The IC is a single individual responsible to the Agency Administrator(s) for all  
24 incident activities. ICs are qualified according to the NWCG *National Incident*  
25 *Management System: Wildland Fire Qualification System Guide* (PMS 310-1)  
26 and any additional agency requirements. The IC may assign personnel to any  
27 combination of ICS functional area duties in order to operate safely and  
28 effectively. ICS functional area duties should be assigned to the most qualified  
29 or competent individuals available.

30 Incident Commanders are responsible for:

- 31 • Obtaining a Delegation of Authority and/or expectations to manage the  
32 incident from the Agency Administrator. For Type 3, 4, or 5 incidents,  
33 delegations/expectations may be written or oral;
  - 34 ○ *BLM – BLM District/Field Managers will provide a written*  
35 *Delegation of Authority and/or expectations to the unit's Type 3, 4,*  
36 *and 5 Incident Commanders annually prior to fire season.*
- 37 • Ensuring that safety receives priority consideration in all incident activities,  
38 and that the safety and welfare of all incident personnel and the public is  
39 maintained;

- 1 • Assessing the incident situation, both immediate and potential;
- 2 • Maintaining command and control of the incident management organization;
- 3
- 4 • Ensuring transfer of command is communicated to host unit dispatch and to all incident personnel;
- 5
- 6 • Developing incident objectives, strategies, and tactics;
- 7 • Developing the organizational structure necessary to manage the incident;
- 8 • Approving and implementing the Incident Action Plan, as needed;
- 9 • Ordering, deploying, and releasing resources;
- 10 • Ensuring incident financial accountability and expenditures meet agency policy and standards; and
- 11
- 12 • Ensuring incident documentation is complete.

13 For purposes of initial attack, the first IC on scene qualified at any level will  
14 assume the duties of initial attack IC. The initial attack IC will assume the duties  
15 and have responsibility for all suppression efforts on the incident up to his/her  
16 level of qualification until relieved by an IC qualified at a level commensurate  
17 with incident complexity.

18 As an incident escalates and de-escalates, a continuing reassessment of  
19 complexity should be completed to validate the current command organization  
20 or identify the need for a different level of incident management.

21 An IC is expected to establish the appropriate organizational structure for each  
22 incident and manage the incident based on his/her qualifications, incident  
23 complexity, and span of control. If the incident complexity exceeds the  
24 qualifications of the current IC, the IC must continue to manage the incident  
25 within his/her capability and span of control until replaced.

#### 26 **On-site Command Organizations**

27 Command organizations responsible for incident management include:

- 28 • Type 5 Incident Command;
- 29 • Type 4 Incident Command;
- 30 • Type 3 Incident Command;
- 31 • Type 2 Incident Command;
- 32 • Type 1 Incident Command;
- 33 • National Incident Management Organizations (NIMO);
- 34 • Area Command; and
- 35 • Unified Command.

#### 36 **Incident Characteristics**

##### 37 **Type 5 Incident Characteristics**

- 38 • Ad hoc organization managed by a Type 5 Incident Commander.
- 39 • Primarily local resources used.

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- 1 • ICS command and general staff positions are not activated.
- 2 • Resources vary from two to six firefighters.
- 3 • Incident is generally contained within the first burning period and often
- 4 within a few hours after resources arrive on scene.
- 5 • Additional firefighting resources or logistical support are not usually
- 6 required.
- 7 • May require a Published Decision in WFDSS.

#### 8 **Type 4 Incident Characteristics**

- 9 • Ad hoc organization managed by a Type 4 Incident Commander.
- 10 • Primarily local resources used.
- 11 • ICS command and general staff positions are not activated.
- 12 • Resources vary from a single resource to multiple resource task forces or
- 13 strike teams.
- 14 • Incident is usually limited to one operational period. However, incidents
- 15 may extend into multiple operational periods.
- 16 • Written Incident Action Plan (IAP) is not required. A documented
- 17 operational briefing will be completed for all incoming resources. Refer to
- 18 the *Incident Response Pocket Guide* for a briefing checklist.
- 19 • May require a Published Decision in WFDSS or other decision support
- 20 document.

#### 21 **Type 3 Incident Characteristics**

- 22 • Ad hoc or pre-established Type 3 organization managed by a Type 3
- 23 Incident Commander.
- 24 • The IC develops the organizational structure necessary to manage the
- 25 incident. Some or all of ICS functional areas are activated, usually at the
- 26 Division/Group Supervisor and/or unit leader level.
- 27 • The incident complexity analysis process is formalized and certified daily
- 28 with the jurisdictional agency. It is the IC's responsibility to continually
- 29 reassess the complexity level of the incident. When the assessment of
- 30 complexity indicates a higher complexity level, the IC must ensure that
- 31 suppression operations remain within the scope and capability of the
- 32 existing organization and that span of control is consistent with established
- 33 ICS standards.
- 34 • Local and non-local resources used.
- 35 • Resources vary from several resources to several task forces/strike teams.
- 36 • May be divided into divisions.
- 37 • May require staging areas and incident base.
- 38 • May involve low complexity aviation operations.
- 39 • May involve multiple operational periods prior to control, which may
- 40 require a written Incident Action Plan (IAP).

- 1 • Documented operational briefings will occur for all incoming resources and
- 2 before each operational period. Refer to the *Incident Response Pocket*
- 3 *Guide* for a briefing checklist.
- 4 • ICT3s will not serve concurrently as a single resource boss or have any non-
- 5 incident related responsibilities.
- 6 • May require a Published Decision in WFDSS.
- 7 • May require a written Delegation of Authority.

### 8 **Type 3 Incident Command**

- 9 When ICT3s are required to manage an incident, they must not have concurrent
- 10 responsibilities that are not associated with the incident and they must not
- 11 concurrently perform single resource boss duties.

12 In 2014, NWCG established the following Type 3 General Staff qualifications in

13 the PMS 310-1: OPS3, LSC3, PSC3, FSC3. The establishment of these positions

14 does not preclude the use of the minimum qualification standards described in

15 the table below.

16 The following table lists minimum qualification requirements for functional

17 responsibilities to manage a Type 3 incident. Activation of these functions is at

18 the discretion of the Incident Commander.

Type 3 Functional Responsibility	Minimum Qualification Standards
Incident Command	Incident Commander Type 3 (ICT3)
Safety	Line Safety Officer (SOFR)
Operations	Task Force Leader (TFLD)
Division	Single Resource Boss – Operational qualification must be commensurate with resources assigned (i.e., more than one resource assigned requires a higher level of qualification).
Plans	Local entities can establish level of skill to perform function.
Logistics	Local entities can establish level of skill to perform function.
Information	Local entities can establish level of skill to perform function.
Finance	Local entities can establish level of skill to perform function.

### 19 **Type 2 Incident Characteristics**

- 20 • Pre-established incident management team managed by Type 2 Incident
- 21 Commander.

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- 1 • ICS command and general staff positions activated.
- 2 • Many ICS functional units required and staffed.
- 3 • Geographic and/or functional area divisions established.
- 4 • Complex aviation operations.
- 5 • Incident command post, base camps, staging areas established.
- 6 • Incident extends into multiple operational periods.
- 7 • Written Incident Action Plan required for each operational period.
- 8 • Operations personnel often exceed 200 per operational period and total
- 9 personnel may exceed 500.
- 10 • Requires a Published Decision in WFDSS or other decision support
- 11 document.
- 12 • Requires a written Delegation of Authority to the Incident Commander.

### 13 **Type 2 Incident Command**

14 These ICs command pre-established Incident Management Teams that are  
15 configured with ICS Command Staff, General Staff and other leadership and  
16 support positions. Personnel performing specific Type 2 command and general  
17 staff duties must be qualified at the Type 1 or Type 2 level according to the  
18 310-1 standards and any additional agency requirements.

### 19 **Type 1 Incident Characteristics**

- 20 • Pre-established Incident Management Team managed by Type 1 Incident
- 21 Commander.
- 22 • ICS command and general staff positions activated.
- 23 • Most ICS functional units required and staffed.
- 24 • Geographic and functional area divisions established.
- 25 • May require branching to maintain adequate span of control.
- 26 • Complex aviation operations.
- 27 • Incident command post, incident camps, staging areas established.
- 28 • Incident extends into multiple operational periods.
- 29 • Written Incident Action Plan required for each operational period.
- 30 • Operations personnel often exceed 500 per operational period and total
- 31 personnel may exceed 1000.
- 32 • Requires a Published Decision in WFDSS or other decision support
- 33 document.
- 34 • Requires a written Delegation of Authority to the Incident Commander.

### 35 **Type 1 Incident Command**

36 These ICs command pre-established Incident Management Teams that are  
37 configured with ICS Command Staff, General Staff and other leadership and  
38 support positions. Personnel performing specific Type 1 Command and General  
39 Staff duties must be qualified at the Type 1 level according to the PMS 310-1  
40 standards and any additional agency requirements.

**1 Incident Management Teams****2 Area Command**

3 Area Command is an Incident Command System organization established to:

- 4 • Oversee the management of large or multiple incidents to which several
- 5 Incident Management Teams have been assigned. Area Command may
- 6 become Unified Area Command when incidents are multi-jurisdictional; or
- 7 • Provide strategic support and coordination services to decision makers such
- 8 as Geographic Area MAC Groups, sub-geographic area MAC Groups,
- 9 Agency Administrators, Geographic Area Coordination Centers, emergency
- 10 operations centers, agency operations centers, or FEMA Joint Field Offices.

11 The primary determining factor for establishing area command is the span of  
12 control of the Agency Administrator.

13 National Area Command teams are managed by the National Multi-Agency  
14 Coordinating Group (NMAC) and are comprised of the following:

- 15 • Area Commander (ACDR);
- 16 • Assistant Area Commander, Planning (AAPC);
- 17 • Assistant Area Commander, Logistics (AALC); and
- 18 • Area Command Aviation Coordinator (ACAC).

19 Depending on the complexity of the interface between the incidents, other  
20 specialists may also be assigned in areas such as aviation safety, information,  
21 long-term fire planning, and risk assessment and analysis.

22 Area Command functions typically include:

- 23 • Establishing overall strategy, objectives, and priorities for the incident(s)
- 24 under its command;
- 25 • Allocating critical resources according to agency priorities (i.e., aircraft,
- 26 IHCs, incident support needs such as medical services, communication and
- 27 internet operability equipment);
- 28 • Ensuring that incidents are properly managed;
- 29 • Coordinating mobilization, team transitions, and demobilization;
- 30 • Supervising, managing, and evaluating Incident Management Teams under
- 31 its command; and
- 32 • Minimizing duplication of effort and optimize effectiveness by combining
- 33 multiple agency efforts under a single Area or Geographic Theater Plan.

**34 Type 1 Incident Management Teams**

35 Type 1 Teams are managed by Geographic Area Multi-Agency Coordinating  
36 Groups and are mobilized by the Geographic Area Coordination Centers. At  
37 national preparedness levels 4 and 5, these teams are managed by the National  
38 Multi-Agency Coordinating Group (NMAC).

- 1 **National Incident Management Organization (NIMO)**  
2 NIMO Teams are managed by the Forest Service Fire and Aviation's  
3 Washington Office and are ordered thru the NICC. The mission of NIMO is to  
4 promote continuous improvement by introducing innovative concepts,  
5 approaches, and technologies while providing adaptive and agile incident  
6 management. The NIMO Coordinator can assist ordering units to order teams in  
7 short or long configurations, customized configuration for special capabilities,  
8 and managing long duration incidents.
- 9 NIMO's standard configuration consists of seven Command and General Staff  
10 positions qualified at the Type 1 level. If needed, NIMO can expand to meet  
11 various complexity levels.
- 12 Types of NIMO assignments include:
- 13 • National or Geographic Area/Regional support to provide strategic planning  
14 assistance, during incident review, and feedback.
  - 15 • Work with Type 2 candidates on Type 1 incidents for successional  
16 planning.
  - 17 • To serve as mentors, trainers and evaluators on a Type 2 or Type 3 incident  
18 or designated projects.
  - 19 • Manage multiple Type 3 ignitions within an area (i.e., GACC, Forest,  
20 Zone).
  - 21 • Support and mentoring to an Agency Administrator with a complex fire  
22 situation.
  - 23 • International assignments.
  - 24 • All-hazard incidents.
  - 25 • Mission-specific assignments – NIMO will continue to assist Forest Service  
26 units and other agencies with special missions. Examples from the past  
27 include R2 Bark Beetle, R5 Marijuana Eradication, or support to Regions as  
28 a Force Multiplier during higher planning/activity levels.
- 29 **Type 2 Incident Management Teams**  
30 Most Type 2 teams are managed by Geographic Area Multi-Agency  
31 Coordinating Groups and are coordinated by the Geographic Area Coordination  
32 Centers. Some Type 2 teams are managed by non-federal agencies (e.g., state or  
33 local governments) and availability of these teams is determined on a case by  
34 case basis.
- 35 **Unified Command**  
36 Unified Command is an application of the Incident Command System used  
37 when there is more than one agency with incident jurisdiction or when incidents  
38 cross political jurisdictions. Under Unified Command, agencies work together  
39 through their designated Incident Commanders at a single incident command  
40 post to establish common objectives and issue a single Incident Action Plan.  
41 Unified Command may be established at any level of incident management or

- 1 area command. Under Unified Command, all agencies with jurisdictional  
2 responsibility at the incident contribute to the process of:
- 3 • Determining overall strategies;
  - 4 • Selecting alternatives;
  - 5 • Ensuring that joint planning for tactical activities is accomplished; and
  - 6 • Maximizing use of all assigned resources.
- 7 Advantages of Unified Command are:
- 8 • A single set of objectives is developed for the entire incident;
  - 9 • A collective approach is used to develop strategies to achieve incident  
10 objectives;
  - 11 • Information flow and coordination is improved between all jurisdictions and  
12 agencies involved in the incident;
  - 13 • All involved agencies have an understanding of joint priorities and  
14 restrictions; and
  - 15 • No agency's legal authorities will be compromised or neglected.

16 **All-Hazard Incident Management Teams (IMTs) and Other Non-Wildland**  
17 **Fire IMT**

18 Many different entities have developed IMTs based on ICS core competencies  
19 under the National Incident Management System (NIMS). See Chapter 8 for  
20 more information.

21 **Coordination and Support Organizations**

- 22 Organizations that provide coordination and support to on-site command  
23 organizations include:
- 24 • Initial Attack Dispatch;
  - 25 • Expanded Dispatch;
  - 26 • Buying/Payment Teams;
  - 27 • National and Geographic Area Coordination Centers (refer to Chapter 8);
  - 28 • Local, Geographic Area, and National Multi-Agency Coordinating (MAC)  
29 Groups.

30 Refer to Chapter 19 for Initial Attack and Expanded Dispatch information.

31 **Buying/Payment Teams**

32 Buying/Payment Teams support incidents by procuring services, supplies, and  
33 renting land, facilities, and equipment. These teams may be ordered when  
34 incident support requirements exceed local unit capacity. These teams report to  
35 the Agency Administrator or the local unit administrative officer. See the  
36 *Interagency Incident Business Management Handbook* for more information.

**1 Multi-Agency Coordination (MAC)**

2 Multi-Agency Coordination Groups are part of the National Interagency  
3 Incident Management System (NIIMS) and are an expansion of the off-site  
4 coordination and support system. MAC groups are activated by the Agency  
5 Administrator(s) when the character and intensity of the emergency situation  
6 significantly impacts or involves other agencies. A MAC group may be  
7 activated to provide support when only one agency has incident(s). The MAC  
8 group is made up of agency representatives who are delegated authority by their  
9 respective Agency Administrators to make agency decisions and to commit  
10 agency resources and funds. The MAC group relieves the incident support  
11 organization (dispatch, expanded dispatch) of the responsibility for making key  
12 decisions regarding prioritization of objectives and allocation of critical  
13 resources. The MAC group makes coordinated Agency Administrator level  
14 decisions on issues that affect multiple agencies. The MAC group is supported  
15 by situation, resource status and intelligence units who collect and assemble data  
16 through normal coordination channels.

17 MAC group direction is carried out through dispatch and coordination center  
18 organizations. When expanded dispatch is activated, the MAC group direction is  
19 carried out through the expanded dispatch organization. The MAC group  
20 organization does not operate directly with Incident Management Teams or with  
21 Area Command Teams, which are responsible for on-site management of the  
22 incident.

23 MAC groups may be activated at the local, geographic, or national level.  
24 National level and Geographic Area level MAC groups should be activated in  
25 accordance with the preparedness levels criteria established in the National and  
26 Geographic Area Mobilization Guides.

27 The MAC Group Coordinator facilitates organizing and accomplishing the  
28 mission, goals and direction of the MAC group. The MAC group coordinator:

- 29 • Provides expertise on the functions of the MAC group and on the proper  
30 relationships with dispatch centers and incident managers;
- 31 • Fills and supervises necessary unit and support positions as needed, in  
32 accordance with coordination complexity;
- 33 • Arranges for and manages facilities and equipment necessary to carry out  
34 the MAC group functions;
- 35 • Facilitates the MAC group decision process; and
- 36 • Implements decisions made by the MAC group.

37 Activation of a MAC group improves interagency coordination and provides for  
38 allocation and timely commitment of multi-agency emergency resources.

39 Participation by multiple agencies in the MAC effort will improve:

- 40 • Overall situation status information;
- 41 • Incident priority determination;
- 42 • Resource acquisition and allocation;

- 1 • State and Federal disaster coordination;
- 2 • Political interfaces;
- 3 • Consistency and quality of information provided to the media and involved
- 4 agencies; and
- 5 • Anticipation of future conditions and resource needs.

#### 6 **Wildland Fire Decision Support System (WFDSS)**

7 The Wildland Fire Decision Support System (WFDSS) is a web-based decision  
8 support system that provides a single dynamic documentation system for use  
9 beginning at the time of discovery and concluding when the fire is declared out.  
10 WFDSS allows the Agency Administrator to describe the fire situation, create  
11 Incident Objectives and Requirements, develop a Course of Action, evaluate  
12 Relative Risk, complete an Organization Assessment, and publish a decision.

13 For detailed information on the tools and capabilities in WFDSS, how managers  
14 may use the tools, and suggested WFDSS refresher training items, refer to  
15 Appendix N.

16 A number of fire applications, including WFDSS, FireCode, Sit/209, and  
17 WildCAD (version 6) use the Integrated Reporting of Wildfire Information  
18 (IRWIN) data exchange system to share fire information and reduce data entry  
19 workload. All wildfires passed to the IRWIN system are initiated in WFDSS  
20 automatically.

21 WFDSS will be used for decision support documentation for all fires that escape  
22 initial attack, exceed initial response, or are being managed for multiple  
23 objectives. These incidents will have a Published Decision within WFDSS. A  
24 Published WFDSS Decision establishes objectives, a Course of Action and  
25 Rationale for incidents with varying duration, spread potential, costs, or other  
26 considerations. The level of documentation to publish a decision should be  
27 commensurate to the incident duration, spread potential, cost, or Relative Risk.  
28 Agency-specific direction established in memos or other policy documents may  
29 further define WFDSS documentation requirements.

- 30 • *BLM – Refer to Chapter 2 for additional requirements for WFDSS*  
31 *implementation.*
- 32 • *NPS – Refer to Chapter 3 for additional requirements for WFDSS*  
33 *implementation.*

#### 34 **Initial Decision**

35 An initial decision should be published within 24 hours after the determination  
36 that a Published Decision is needed, or within 24 hours of requesting an incident  
37 management team.

- 1 Considerations for determining that a decision is needed include:
- 2 • The fire has not been contained by initial attack resources dispatched to the
  - 3 fire;
  - 4 • The fire will not have been contained within the initial attack management
  - 5 objectives established for that zone or area according to the unit's planning
  - 6 documents;
  - 7 • The Incident Objectives include both protection and resource benefit
  - 8 elements consistent with land management planning documents;
  - 9 • The fire affects or is likely to affect more than one agency or more than one
  - 10 administrative unit within a single agency (for example more than one
  - 11 National Forest);
  - 12 • The fire is burning into or expected to burn into wildland-urban interface;
  - 13 • Significant safety or other concerns such as air quality are present or
  - 14 anticipated; and
  - 15 • The Relative Risk Assessment indicates the need for additional evaluation
  - 16 and development of best management practices for achieving land and
  - 17 resource objectives.

#### 18 **New Decision**

19 As incident complexity increases or decreases, it may become necessary for  
20 additional supporting analyses to inform decision making. If additional analysis  
21 indicates the decision needs modification, a new decision is required. Depending  
22 on the complexity of the incident, a new decision should be published within 2-3  
23 days for less complex incidents and within 4-7 days for more complex incidents.  
24 The same criteria above plus the following considerations can guide  
25 determinations about publishing a new decision:

- 26 • The Periodic Assessment indicates the Course of Action is no longer valid;
- 27 • The management needs of the incident exceed existing capability;
- 28 • The expected costs of incident management exceed the estimated costs in
- 29 the initial Decision or agency-established thresholds for level of approval
- 30 authority;
- 31 • The fire moves or is expected to move beyond the Planning Area analyzed;
- 32 • Management Action Points have been established since the initial Decision
- 33 was published and additional information is needed to further manage the
- 34 incident over time; and
- 35 • The line officer is considering ordering an IMT.

36 Additional information about WFDSS can be found in Appendix N. User  
37 support information, training materials, and other resources can be found at the  
38 WFDSS homepage, <http://wfdss.usgs.gov/>.

#### 39 **WFDSS Decision Approval and Publication**

40 Decisions in WFDSS are approved and published by the appropriate Line  
41 Officer as defined in the tables below. Incident privileges must be assigned  
42 within WFDSS to designate the Approver(s). During the approval process, prior

1 to publishing a decision, the Periodic Assessment timeframe can be set from 1 to  
2 14 days.

3 It is imperative that a decision be reviewed carefully as once approved and  
4 published, a decision becomes a system of record and all WFDSS users can  
5 view the information. Additionally, the action CANNOT be undone. If there is  
6 an error in the information, or new information is added for documentation or  
7 update (i.e., fire behavior, Management Action Points) a new decision must be  
8 published to officially update the record.

9 All agencies having jurisdiction included in a WFDSS Planning Area should be  
10 notified prior to publication of a decision.

#### 11 WFDSS Approval Requirements by Agency

##### 12 DOI WFDSS Approval Requirements

Cost Estimate <sup>1</sup>	WFDSS Approval
Less Than \$5 Million	BIA Agency Superintendent, NPS Park Superintendent, FWS Refuge Manager, BLM District/Field Manager <sup>3</sup>
\$5 Million - \$10 Million	BIA/NPS/FWS Regional Director <sup>2</sup> BLM District/Field Manager <sup>3</sup>
Greater Than \$10 Million	BIA/NPS/FWS National Director <sup>2</sup> BLM District/Field Manager <sup>3</sup>

##### 13 USFS WFDSS Approval Requirements

Incident Type	USFS Approval
Type 3,4,5	District Ranger level with oversight by the Forest Supervisor
Type 2	Forest Supervisor level with oversight by the Regional Forester <sup>4</sup>
Type 1	Regional Forester level with National oversight <sup>4</sup>

14 <sup>1</sup>**DOI** – Cost estimate should be based on proportionate agency share of the  
15 estimated final cost of the incident. For example, on a \$20 million fire managed  
16 by a Type 1 IMT that is 98% FS, 1% BLM, and 1% NPS, the USFS Regional  
17 Forester and the BLM and NPS local Agency Administrators would be the  
18 approving officials in a jointly published WFDSS decision.

19 <sup>2</sup>**BIA/NPS/FWS** – Regional Directors and National Director may delegate  
20 WFDSS approval authority as per agency policy.

21 <sup>3</sup>**BLM** – District/Field Managers will approve WFDSS decisions and provide  
22 written notification to the state and/or national director when approaching \$5



1 million and/or \$10 million cost estimates. Refer to Chapter 2 for additional  
2 information regarding delegation of WFDSS approval.  
3 <sup>4</sup>FS – This authority may be delegated to the next lower level provided that the  
4 line officer at the lower next level meets Line Officer wildfire response  
5 certification requirements.

#### 6 **WFDSS Support**

7 The Wildland Fire Management Research Development and Application (WFM  
8 RD&A) group provides the national infrastructure for wildland fire decision  
9 making and WFDSS support. Field users should contact their WFDSS  
10 Geographic Area Editor for assistance prior to contacting WFM RD&A.  
11 Information for requesting assistance from WFM RD&A can be found at the  
12 WFDSS homepage at <http://wfdss.usgs.gov/>.

#### 13 **Managing the Incident**

##### 14 **Agency Administrator Definition**

15 An Agency Administrator is the official responsible for the management of a  
16 geographic unit or functional area. Agency Administrators are the managing  
17 officer of an agency, division thereof, or jurisdiction having statutory  
18 responsibility for incident mitigation and management. Some examples include:  
19 NPS Park Superintendent, BIA Agency Superintendent, USFS Forest  
20 Supervisor, BLM District Manager, FWS Refuge Manager, State Forester,  
21 Tribal Chairperson, Fire Chief, Police Chief.

##### 22 **Agency Administrator Responsibilities**

23 The Agency Administrator (AA) manages the land and resources on their  
24 organizational unit according to the established land management plan. Fire  
25 management is part of that responsibility.

26 Agency Administrators are responsible for safety oversight, and may request  
27 additional safety oversight as needed.

28 Situations that may require additional safety oversight:

- 29 • A fire escapes initial attack or when extended attack is probable;
- 30 • There is complex or critical fire behavior;
- 31 • There is a complex air operation;
- 32 • The fire is in an urban intermix/interface; and
- 33 • Other extraordinary circumstances.

34 The AA establishes specific performance objectives for the Incident  
35 Commander (IC) and delegates the authority to the IC to take specific actions to  
36 meet those objectives. Agency Administrator responsibilities to an Incident  
37 Management Team (IMT) include:

- 1 • Conduct an initial briefing to the Incident Management Team (Appendix  
2 D).
- 3 • Provide an approved WFDSS Decision.
  - 4 ○ *FS – Ensure that significant decisions related to strategy and costs*  
5 *are included in WFDSS.*
- 6 • Complete a Risk and Complexity Assessment (Appendix E and F) to  
7 accompany the WFDSS Published Decision.
  - 8 ○ *FS – Complete a Risk and Complexity Assessment (RCA) for Type 1,*  
9 *2, and 3 incidents within WFDSS.*
- 10 • Coordinate with neighboring agencies on multi-jurisdiction fires to issue a  
11 joint Delegation of Authority and develop a single Published Decision in  
12 WFDSS for the management of unplanned ignitions.
- 13 • Issue a written Delegation of Authority (Appendix G) to the Incident  
14 Commander and to other appropriate officials, Agency Administrator  
15 Representative, Resource Advisor, and Incident Business Advisor. The  
16 delegation should:
  - 17 ○ State specific and measurable objectives, priorities, expectations,  
18 Agency Administrator's intent, constraints, and other required  
19 direction;
  - 20 ○ Establish the specific time for transfer of command;
  - 21 ○ Assign clear responsibilities for initial attack;
  - 22 ○ Define your role in the management of the incident;
  - 23 ○ Describe procedures for Conducting during action reviews with the IC;
  - 24 ○ Assign a resource advisor(s) to the IMT;
  - 25 ○ Define public information responsibilities;
  - 26 ○ Address accident investigation procedures and notification  
27 requirements for fire managers, line officer(s), and  
28 dispatch/coordination centers;
  - 29 ○ Assign a local government liaison to the IMT (if necessary);
  - 30 ○ Assign a local fire management liaison to the IMT (if necessary);
  - 31 ○ Assign an Incident Business Advisor (IBA) to provide incident  
32 business management oversight commensurate with complexity; and
  - 33 ○ Direct the IMT to address rehabilitation of areas affected by  
34 suppression activities.
- 35 • Coordinate mobilization with the Incident Commander:
  - 36 ○ Negotiate filling of mobilization order with the IC;
  - 37 ○ Establish time and location of Agency Administrator briefing;
  - 38 ○ Consider approving support staff additional to the IMT as requested by  
39 the IC; and
  - 40 ○ Consider authorizing transportation needs as requested by the IC.
- 41 • Provide pertinent support materials and documents (L/RMP, FMP, GIS  
42 data, local unit SOP's, maps, Service and Supply Plan, etc.) to the IMT.

43 In situations where one agency provides fire suppression service under  
44 agreement to the jurisdictional agency, both jurisdictional and protecting

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1 agencies will be involved in the development of and signatories to the  
2 Delegation of Authorities to the Incident Management Teams and the Published  
3 Decision in WFDSS.

#### 4 **Agency Administrator Representative Responsibilities**

5 The Agency Administrator Representative (the on-scene Agency Administrator)  
6 is responsible for representing the political, social, and economic issues of the  
7 Agency Administrator to the Incident Commander. This is accomplished by  
8 participating in the Agency Administrator briefing, in the IMT planning and  
9 strategy meetings and in the operational briefings.

10 Responsibilities include representing the Agency Administrator to the IMT  
11 regarding:

- 12 • Compliance with the Delegation of Authority and the Published Decision in  
13 WFDSS;
- 14 • Public Concerns (air quality, road or trail closures, smoke management,  
15 threats);
- 16 • Public safety (evacuations, access/use restrictions, temporary closures);
- 17 • Public information (fire size, resources assigned, threats, concerns, appeals  
18 for assistance);
- 19 • Socioeconomic, political, or tribal concerns;
- 20 • Land and property ownership concerns;
- 21 • Interagency and inter-governmental issues;
- 22 • Wildland urban interface impacts; and
- 23 • Media contacts.

#### 24 **Resource Advisor Responsibilities**

25 The Resource Advisor is responsible for anticipating the impacts of fire  
26 operations on natural and cultural resources and for communicating protection  
27 requirements for those resources to the Incident Commander. The Resource  
28 Advisor should ensure IMT compliance with the Land/Resource Management  
29 Plan and Fire Management Plan. The Resource Advisor should provide the  
30 Incident Commander with information, analysis, and advice on these areas:

- 31 • Rehabilitation requirements and standards;
- 32 • Land ownership;
- 33 • Hazardous materials;
- 34 • Fuel breaks (locations and specifications);
- 35 • Water sources and ownership;
- 36 • Critical watersheds;
- 37 • Critical wildlife habitat;
- 38 • Noxious weeds/aquatic invasive species;
- 39 • Special status species (threatened, endangered, proposed, sensitive);
- 40 • Fisheries;
- 41 • Poisonous plants, insects and snakes;
- 42 • Mineral resources (oil, gas, mining activities);

- 1 • Archeological site, historic trails, paleontological sites;
- 2 • Riparian areas;
- 3 • Military issues;
- 4 • Utility rights-of-way (power, communication sites);
- 5 • Native allotments;
- 6 • Grazing allotments;
- 7 • Recreational areas; and
- 8 • Special management areas (wilderness areas, wilderness study areas,
- 9 recommended wilderness, national monuments, national conservation areas,
- 10 national historic landmarks, areas of critical environmental concern,
- 11 research natural areas, wild and scenic rivers).

12 The Resource Advisor and Agency Administrator Representative positions are  
13 generally filled by local unit personnel. These positions may be combined and  
14 performed by one individual. Duties are stated in the *Resource Advisor's Guide*  
15 *for Wildland Fire* (NWCG PMS 313, NFES 1831, Jan 2004).

#### 16 Use of Trainees

17 Use of trainees is encouraged. On wildland fire incidents, trainees may supervise  
18 trainees. However, when assigning trainees to positions where critical life-safety  
19 decisions are affected, trainees must be directly supervised by a fully qualified  
20 individual. For example:

- 21 • A Division Group Supervisor (DIVS) trainee may not work directly for an  
22 Operations Section Chief without additional field supervision. The potential  
23 for high hazard work with high risk outcomes calls for a fully qualified  
24 DIVS to be assigned supervision of the DIVS trainee.
- 25 • A Supply Unit Leader (SPUL) trainee may supervise a  
26 Receiving/Distribution Manager (RCDM) trainee. In this case, supervision  
27 may be successfully provided in a lower hazard environment with  
28 appropriate risk mitigation.

#### 29 Incident Action Plan

30 When a written Incident Action Plan is required, suggested components may  
31 include objectives, organization, weather forecast, fire behavior forecast,  
32 division assignments, air operations summary, safety message, communications  
33 plan, and incident map. An incident medical plan is required in all written  
34 Incident Action Plans.

#### 35 Incident Status Reporting

36 The Incident Status Summary (ICS-209), submitted to the GACC, is used to  
37 report large wildland fires and any other significant events on lands under  
38 federal protection or federal ownership. Lands administered by states and other  
39 federal cooperators may also report in this manner.

1 Large fires are classified as 100 acres or larger in timber fuel types, 300 acres or  
2 larger in grass fuel types, or when a NIMO, Type 1 or 2 Incident Management  
3 Team is assigned, regardless of the size of the incident or the suppression  
4 management strategy. An ICS-209 should be submitted daily for all uncontained  
5 full suppression wildfires that meet large fire criteria. An ICS-209 should be  
6 submitted weekly (Thursday evening), for all wildfires meeting large fire criteria  
7 that are being managed under strategies that are less than full suppression. The  
8 Agency Administrator may require additional reporting times. Refer to local,  
9 zone and/or GACC guidance for additional reporting requirements.

#### 10 **Incident History and Financial Records**

11 Wildfire incidents on Federal lands managed by the FS and DOI (except BIA)  
12 require creation of an Incident History File (IHF) to document significant  
13 events, actions taken, lessons learned and other information with long-term  
14 value for managing natural resources. IHF contents and instructions, and tools  
15 for creating the IHF are found at  
16 <http://www.nwcg.gov/committees/incident-records-subcommittee/resources>.

17 The host unit will be responsible for retaining the incident documentation  
18 package including the IHF and financial records.

#### 19 **Document and Computer Security**

20 Precautions must be taken to secure incident information in its various formats.  
21 All forms of information shall be treated as Controlled Unclassified Information  
22 (CUI) and care must be exercised when handling the data to prevent the  
23 inadvertent viewing or unauthorized disclosure of information. CUI paper copies  
24 that compromise privacy and security shall be shredded before disposal when no  
25 longer needed. All computers used at the incident must be patched and have  
26 anti-virus software installed with recently updated definition files. All media  
27 used to transfer information into the incident (for example, but not limited to,  
28 USB flash drives, portable hard drives and CD/DVDs) must be scanned prior to  
29 use. Autorun capabilities must be disabled to prevent the spread of malware. All  
30 computers and storage devices shall be physically secured at all times.

#### 31 **Transfer of Command**

32 The following guidelines will assist in the transfer of incident command  
33 responsibilities from the local unit to incoming Incident Management Team and  
34 back to the local unit.

- 35 • The local team or organization already in place remains in charge until the  
36 local representative briefs their counterparts on the incoming team, a  
37 Delegation of Authority has been signed, and a mutually agreed time for  
38 transfer of command has been established.
- 39 • The ordering unit will specify times of arrival and transfer of command, and  
40 discuss these timeframes with both the incoming and outgoing command  
41 structures.

- 1 • Clear lines of authority must be maintained in order to minimize confusion
- 2 and maintain operational control.
- 3 • Transfers of command should occur at the beginning of an operational
- 4 period, whenever possible.
- 5 • All operational personnel will be notified on incident command frequencies
- 6 when transfer of command occurs.

#### 7 **Release of Incident Management Teams**

8 The release of an IMT should follow an approved transfer of command process.

9 The Agency Administrator must approve the date and time of the transfer of

10 command. The transition plan should include the following elements:

- 11 • Remaining organizational needs and structure;
- 12 • Tasks or work to be accomplished;
- 13 • Communication systems and radio frequencies;
- 14 • Local safety hazards and considerations;
- 15 • Incident Action Plan, including remaining resources and weather forecast;
- 16 • Facilities, equipment, and supply status;
- 17 • Arrangement for feeding remaining personnel;
- 18 • Financial and payment processes needing follow-up; and
- 19 • Risk and Complexity Assessment.

#### 20 **Team Evaluation**

21 At completion of assignment, Incident Commanders will receive a written

22 performance evaluation from the Agency Administrator(s) prior to the teams'

23 release from the incident. Certain elements of this evaluation may not be able to

24 be completed at the closeout review. These include accountability and property

25 control, completeness of claims investigation/documentation, and completeness

26 of financial and payment documentation.

27 The final evaluation incorporating all of the above elements should be sent to

28 the Incident Commander and the respective GACC within 60 days. See

29 Appendix I for the IMT evaluation form.

30 The Delegation of Authority, the Published Decision in WFDSS, and other

31 documented Agency Administrator's direction will serve as the primary

32 standards against which the IMT is evaluated.

33 The Agency Administrator will provide a copy of the evaluation to the IC and

34 the state/regional FMO, and retain a copy for the final fire package.

35 The state/regional FMO will review all evaluations and will be responsible for

36 providing a copy of evaluations documenting performance to the Geographic

37 Area Coordinating Group or agency managing the IMT.

**1 Unit/Area Closures**

- 2 Threats to public safety may require temporary closure of a unit/area or a  
3 portion of it. When a fire threatens escape from the unit/area, adjacent  
4 authorities must be given as much advance notice as possible in order to achieve  
5 orderly evacuation.

**6 Incident Emergency Management Planning and Services**

- 7 Refer to Chapter 7 for further guidance.

**8 Fire Management in Wilderness**

- 9 Actions taken in wilderness will be conducted to protect life and safety, to meet  
10 natural and cultural resource objectives, and to minimize negative impacts of the  
11 fire management actions and the fires themselves. In evaluating fire  
12 management actions, the potential degradation of wilderness character will be  
13 considered before, and given significantly more weight than, economic  
14 efficiency and convenience. Unless human life or private property is  
15 immediately threatened, only those actions that preserve wilderness character  
16 and/or have localized, short-term adverse impacts to wilderness character will be  
17 acceptable. Any delegation of authority to Incident Management Teams will  
18 convey appropriate emphasis on the protection of wilderness character and  
19 resources and will ensure interaction with local wilderness resource advisors.
- 20 • *BLM/NPS/FWS – For all wilderness fire management actions proposing*  
21 *the use of any of the Wilderness Act 4(c) prohibitions, a minimum*  
22 *requirements analysis will be completed.*
  - 23 • *FS – For all wilderness fire management actions proposing the use of any*  
24 *Wilderness Act 4(c) prohibitions, a minimum requirements analysis is*  
25 *recommended.*

**26 Operational Guidelines for Aquatic Invasive Species**

- 27 In order to prevent the spread of aquatic invasive species, it is important that fire  
28 personnel not only recognize the threat aquatic invasive species pose to  
29 ecological integrity, but how our fire operations and resulting actions can  
30 influence their spread. Each local land management unit may have specific  
31 guidelines related to aquatic invasive species. Therefore, it is recommended that  
32 you consult established local jurisdictional guidelines for minimizing the spread  
33 of aquatic invasive species and for equipment cleaning guidance specific to  
34 those prevalent areas and associated species. To minimize the potential  
35 transmission of aquatic invasive species, it is recommended that you:
- 36 • Consult with local biologists, Resource Advisors (READ) and fire  
37 personnel for known aquatic invasive species locations in the area and avoid  
38 them when possible;

- 1 • Avoid entering (driving through) water bodies or saturated areas whenever  
2 possible;
- 3 • Avoid transferring water between drainages or between unconnected waters  
4 within the same drainage when possible;
- 5 • Use the smallest screen possible that does not negatively impact operations  
6 and avoid sucking organic and bottom substrate material into water intakes  
7 when drafting from a natural water body;
- 8 • Avoid obtaining water from multiple sources during a single operational  
9 period when possible; and
- 10 • Remove all visible plant parts, soil and other materials from external  
11 surfaces of gear and equipment after an operational period. If possible,  
12 power-wash all accessible surfaces with clean, hot water (ideally > 140° F)  
13 in an area designated by a local READ.
  - 14 ○ *BLM – For additional information and guidelines please refer to the*  
15 *links provided in the document titled “BLM Fire Program Aquatic*  
16 *Invasive Species Guidance,” found at*  
17 *<http://web.blm.gov/internal/fire/fpjm/docs/aquatic.pdf>.*

#### 18 **Noxious Weed Prevention**

19 To reduce the transport, introduction, and establishment of noxious weeds or  
20 other invasive species on the landscape due to fire suppression activities, all fire  
21 suppression and support vehicles, tools, and machinery should be cleaned at a  
22 designated area prior to arriving and leaving the incident. Onsite fire equipment  
23 should be used to thoroughly clean the undercarriage, fender wells, tires,  
24 radiator, and exterior of the vehicle. Firefighter personnel should clean personal  
25 equipment, boots, clothing, etc. of weed or other invasive species materials,  
26 including visible plant parts, soil, and other materials as identified by the fire  
27 resource advisor. The cleaning area should also be clearly marked to identify the  
28 area for post fire control treatments, as needed.

29 Ensure that seed mixes, mulch, and/or straw wattles contain no federally or state  
30 designated noxious weeds by using seed mixes, mulches or straw wattles that  
31 have been examined by a laboratory or have current weed free certification from  
32 a state seed laboratory or equivalent qualified testing agent.

#### 33 **Responding to Non-Wildland Fire Incidents**

34 Managers will avoid giving the appearance that their wildland fire resources are  
35 trained and equipped to perform structure, vehicle, and dump fire suppression, to  
36 respond to hazardous materials releases, or to perform emergency medical  
37 response for the public.

#### 38 **Wildland Urban Interface**

39 The operational roles of the federal agencies as partners in the wildland urban  
40 interface are wildfire suppression, structure protection (see below), prescribed



1 fire, hazard reduction, cooperative prevention and education, and technical  
2 assistance. Structural fire suppression is the responsibility of tribal, state, or  
3 local governments. Federal agencies may assist with exterior structural fire  
4 protection activities under formal fire protection agreements that specify the  
5 mutual responsibilities of the partners, including funding (some federal agencies  
6 have full structural protection authority for their facilities on lands they  
7 administer and may also enter into formal agreements to assist state and local  
8 governments with structural protection).

9 – *Review and Update of the 1995 Federal Wildland Fire Management*  
10 *Policy, January 2001, page 23.*

11 Funding is not provided to prepare for or respond to emergency non-wildland  
12 fire response activities such as structure fires, vehicle fires, dump fires,  
13 hazardous materials releases, and emergency medical responses. Managers must  
14 ensure that fire management plans, interagency agreements, and annual  
15 operating plans clearly state agency and cooperator roles and responsibilities for  
16 non-wildland fire response activities that agency personnel are exposed to as a  
17 result of working in the interagency fire environment. Managers will also ensure  
18 that federal wildland fire resources are not identified on run cards or in dispatch  
19 plans for non-wildland fire responses.

#### 20 **Structure, Vehicle, Dumpster, Trash, and Landfill Fires**

21 Wildland firefighters will not take direct suppression action on structure,  
22 vehicle, dumpster, trash, or landfill fires. Structure, vehicle, and landfill fire  
23 suppression is not a functional responsibility of wildland fire resources. These  
24 fires have the potential to emit high levels of toxic gases. This policy will be  
25 reflected in suppression response plans.

26 Wildland firefighters who encounter structure, vehicle, or landfill fires, or who  
27 are dispatched to such fires due to significant threat to adjacent agency protected  
28 lands/resources, will not engage in direct suppression action. Structure  
29 protection (not suppression) activities will be limited to exterior efforts, and only  
30 when such actions can be accomplished safely and in accordance with  
31 established wildland fire operations standards.

- 32 • *NPS – For structural fire (including vehicle, trash and dumpster fires)*  
33 *response, training, medical examination, and physical fitness requirements,*  
34 *and hazardous material response or control guidance, refer to Chapter 3.*
- 35 • *FS – Wildfires other than vegetation (such as dumpster, trash, landfill, or*  
36 *vehicle) as the primary fuel present hazards that are outside of the basic*  
37 *wildland firefighters training and protective equipment. Response actions*  
38 *will be limited to protection of life, property, and resources when they can*  
39 *be safely undertaken with proper risk assessment and mitigation. When*  
40 *agency employees are trained, qualified, and equipped to take action on*  
41 *other than vegetation fires, they may do so with proper risk assessment and*  
42 *mitigation (Incident Response Pocket Guide, PMS 461).*

**1 Public Emergency Medical Response**

2 Public emergency medical response is not a functional responsibility of wildland  
3 fire resources, and should not be part of a preplanned response that requires  
4 these duties. When wildland firefighters encounter emergency medical response  
5 situations, their efforts should be limited to immediate care (e.g., first aid, first  
6 responder) actions that they are trained and qualified to perform.

- 7 • *NPS – NPS employees who provide emergency medical services will adhere*  
8 *to the requirements contained in Director's Order and Reference Manual*  
9 *#51, Emergency Medical Services.*

**10 Post-Wildfire Activities**

11 Each wildland fire management agency is responsible for taking prompt action  
12 to determine the need for, and to prescribe and implement, emergency  
13 treatments to minimize threats to life or property or to stabilize and prevent  
14 unacceptable degradation to natural and cultural resources resulting from the  
15 effects of a fire on the lands they manage.

16 Post-wildfire activities references can be found in *Interagency Burned Area*  
17 *Emergency Response Guidebook, Interpretation of Department of the Interior*  
18 *620 DM 3 and USDA Forest Service Manual 2523, For the Emergency*  
19 *Stabilization of Federal and Tribal Trust Lands, Version 4.0 dated Feb. 2006*  
20 *and Interagency Burned Area Rehabilitation Guidebook, Interpretation of*  
21 *Department of the Interior 620 DM 3, For the Burned Area Rehabilitation of*  
22 *Federal and Tribal Trust Lands, Version 1.3 dated October 2006 at*  
23 <http://www.fws.gov/fire/ifcc/Esr/home.htm>.

24 Damages resulting from wildfires are addressed through four activities:

- 25 • **Wildfire Management Activity Damage Repair** – Planned actions taken to  
26 repair the damages to resources, lands, and facilities resulting from wildfire  
27 suppression actions and documented in the Incident Action Plan. These  
28 actions are usually implemented prior to, or immediately after containment  
29 of the wildfire by the incident management organization. Repairs under this  
30 activity may be completed to return the value to pre-wildfire management  
31 activity condition as practical but may not improve the condition beyond  
32 what was existing prior to the incident.
- 33 • **Emergency Stabilization** – Planned actions to stabilize and prevent  
34 unacceptable degradation to natural and cultural resources, to minimize  
35 threats to life or property resulting from the effects of a wildfire, or to  
36 repair/replace/construct physical improvements necessary to prevent  
37 degradation of land or resources. Emergency stabilization actions must be  
38 taken within one year following containment of a wildfire and documented  
39 in a Burned Area Emergency Response Plan.
- 40 • **Rehabilitation** – Efforts taken within three years of containment of a  
41 wildfire to repair or improve wildfire-damaged lands unlikely to recover  
42 naturally to management approved conditions, or to repair or replace minor

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- 1 facilities damaged by wildfire. These efforts are documented in a separate
- 2 Burned Area Rehabilitation Plan.
- 3 • Restoration – Continuing the rehabilitation beyond the initial three years or
- 4 the repair or replacement of major facilities damaged by the wildfire.

#### Post-Fire Activities

	Suppression Repair	Emergency Stabilization	Rehabilitation	Restoration
Objective	Repair suppression damages	Protect life and property	Repair damages	Long Term Ecosystem Restoration
Damage due to	Suppression activities	Post-fire events and fire	Fire	Fire
Urgency	Immediately after containment	1-12 months	1-3 years	3 + years
Responsibility	IC/Agency Administrator	Agency Administrator	Agency Administrator	Agency Administrator
Funding type	Suppression (fire)	Suppression (Emergency Stabilization)	Rehabilitation or regular program	Regular program

#### Emergency Stabilization Approval Authorities

	BIA	BLM	FWS	NPS	FS
Local Approval Level	<\$250,000 Agency Supt.	\$0 Field/ District Manager	\$0 Refuge Manager	\$0 Park Supt.	\$0 District Ranger
					\$0 Forest Supervisor
Regional/ State Approval Level	\$250,000- \$500,000 Regional Director	<\$100,000 State Director	<\$500,000 Regional Director with Regional Fire Management Coordinator concurrence	<\$500,000 Regional Director	\$500,000 Western Regional Foresters
					\$100,000 Eastern Regional Foresters
National Approval Level	>\$500,000 Director of Fire Management	>\$100,000 Director	>\$500,000 Chief, Branch of Fire Management	>\$500,000 Chief, Division of Fire and Aviation	>\$100,000 or \$500,000 Director, Watershed & Wildlife Management

**1 Burned Area Emergency Response (BAER) Teams**

2 BAER Teams are a standing or ad hoc group of technical specialists (e.g.,  
3 hydrologists, biologists, soil scientists, etc.) that develop and may implement  
4 portions of the Burned Area Emergency Response Plans. They will meet the  
5 requirements for unescorted personnel found in Chapter 7 under "Visitors to the  
6 Fireline" when working within the perimeter of an uncontrolled wildfire. The  
7 team's skills and size should be commensurate with the size and complexity of  
8 the wildfire.

9 It is the Agency Administrator's responsibility to designate an interdisciplinary  
10 BAER team. However, BAER teams must coordinate closely with IC and  
11 Incident Management teams to work safely and efficiently. Initial requests for  
12 funding for BAER should be submitted to the appropriate Agency Administrator  
13 for approval within 7 calendar days after the total containment of the fire. If  
14 additional time is needed, extensions may be negotiated with those having  
15 approval authority.

16 • *DOI – The Department of Interior maintains one National BAER Team to*  
17 *assist field units in planning for complex post-fire emergency stabilization.*  
18 *The National BAER Team is scalable in long and short configurations. It*  
19 *may be ordered as command and general staff, or ordered as individual*  
20 *resources. The full National BAER Team is dispatched to more difficult*  
21 *incidents involving extreme risks to human life and critical Federal assets.*  
22 *Potential floods, mud and debris flows, watershed/municipal water*  
23 *supplies, urban interface, and complex and multiple jurisdictions are the*  
24 *dispatch prioritization criteria issues factored into the mobilization*  
25 *decision. Less complex incidents will use local, regional, interagency, and*  
26 *contracted ad hoc BAER teams that may be supplemented with National*  
27 *BAER Team personnel. Bureau coordinators maintain rosters of BAER*  
28 *personnel for less complex incidents.*

29 • *DOI – The DOI-BAER Teams should be requested at least 10 days prior to*  
30 *expected date of wildfire containment and ordered as per the National*  
31 *Mobilization Guide.*

32 • *FS – Each Forest Service unit identifies a core BAER team prior to fire*  
33 *season. Regional coordinators maintain rosters of experienced BAER*  
34 *personnel in the Region. When needed, specific BAER personnel*  
35 *representing needed specialties from other units can either be contacted*  
36 *directly or through dispatch. See FSM 2523 and FSH 2509.13 for agency-*  
37 *specific policy and direction for BAER teams.*

**38 Incident Business Management**

39 Specific incident business management guidance is contained in the *Interagency*  
40 *Incident Business Management Handbook* (PMS 902). This handbook assists  
41 participating agencies of the NWCG to constructively work together to provide  
42 effective execution of each agency's incident management program by  
43 establishing procedures for:

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- 1 • Uniform application of regulations on the use of human resources, including
- 2 classification, payroll, commissary, injury compensation, and travel;
- 3 • Acquisition of necessary equipment and supplies from appropriate sources
- 4 in accordance with applicable procurement regulations;
- 5 • Managing and tracking government property;
- 6 • Financial coordination with the protection agency and maintenance of
- 7 finance, property, procurement, and personnel records and forms;
- 8 • Use and coordination of incident business management functions as they
- 9 relate to sharing of resources among federal, state, and local agencies,
- 10 including the military;
- 11 • Investigation and reporting of accidents;
- 12 • Investigating, documenting, and reporting claims;
- 13 • Documenting costs and implementing cost-effective criteria for managing
- 14 incident resources; and
- 15 • Non-fire incidents administrative processes.
- 16 ○ *DOI – The Department of the Interior All Hazards-Supplement to the*
- 17 *Interagency Incident Business Management Handbook establishes*
- 18 *business management guidelines for the Department of the Interior's*
- 19 *(DOI's) all-hazards incidents. The DOI Supplement is available at*
- 20 *<http://www.doi.gov/emergency/emergency-policy.cfm>.*

#### 21 **Cost Management**

22 An Incident Business Advisor (IBA) must be assigned to any wildfire with costs  
23 of \$5 million or more. If a qualified IBA is not available, the approving official  
24 will appoint a financial advisor to monitor expenditures.

25 Incident cost objectives will be included as a performance measure in Incident  
26 Management Team evaluations.

#### 27 **Large Fire Cost Reviews**

28 An Interagency Large Fire Cost Review will be conducted when an incident  
29 (single fire or complex) meets or exceeds Federal combined expenditures of \$10  
30 million.

31 A review may also be conducted when an incident (single fire or fire complex)  
32 meets or is expected to meet one or more of the following criteria:

- 33 • The predicted time to achieve the fire management objective exceeds 21
- 34 days;
- 35 • There are significant political, social, natural resource, or policy concerns;
- 36 • There are significant and complicated cost-share or multi-jurisdictional
- 37 issues; or
- 38 • The affected agency requests a review.

39 It is the responsibility of the Agency Administrator to monitor large fire costs  
40 and advise the appropriate individual(s) within their agency of the need for a

- 1 Large Fire Cost Review. When a multi-jurisdictional fire requires review, the  
2 local Agency Administrator will determine which agency will be designated as  
3 the lead in the review process.
- 4 The Agency Director will provide a Delegation of Authority to the Cost Review  
5 Team authorizing the implementation of a review. When possible, Large Fire  
6 Cost Reviews should be conducted when the Incident Management Team is still  
7 in place to allow prompt access to records and incident personnel.
- 8 • *BLM – The Assistant Director, Fire and Aviation will initiate, facilitate,  
9 and provide oversight for the LFCR process. Upon determination of the  
10 need for a LFCR, the AD will coordinate with the appropriate state director  
11 and assemble a LFCR team, provide a delegation of authority, and initiate  
12 the LFCR using direction found at  
13 [http://web.blm.gov/internal/fire/budget/Reports/Report\\_Menu\\_new.htm](http://web.blm.gov/internal/fire/budget/Reports/Report_Menu_new.htm).  
14 The AD will provide briefings to the Bureau Director, as appropriate.*

#### 15 **Cache Management**

- 16 Agencies often serve as interagency partners in national support caches and  
17 local area support caches, and may operate single agency initial attack caches.  
18 All caches will maintain established stocking levels, receive and process orders  
19 from participating agencies and follow ordering and fire replenishment  
20 procedures as outlined by the national and geographic area cache management  
21 plans and mobilization guides.
- 22 • *FS – Refer to FSM 5160 for specific requirements.*

#### 23 **Type 1 and 2 National Interagency Support Caches**

- 24 There are fifteen National Interagency Support Caches (NISCs); eleven are  
25 managed by the Forest Service, three are managed by the BLM, and one is  
26 managed by the State of Idaho. The fifteen national caches are part of the  
27 National Fire Equipment System (NFES). Each of these caches provides  
28 incident support in the form of equipment and supplies to units within their  
29 respective geographic areas. The NFES cache system may support other  
30 emergency, disaster, fire-related or land management activities, provided that  
31 such support is permitted by agency policies and does not adversely affect the  
32 primary mission. These national caches do not provide supplies and equipment  
33 to restock local caches for non-incident requests. Non-emergency (routine)  
34 orders should be directed to the source of supply; e.g., DLA or private vendors.

- 35 The Great Basin Area Incident Support Cache at NIFC provides publications  
36 management support to the National Wildfire Coordinating Group (NWCG).  
37 Reference the *NWCG NFES Catalog Part 2: Publications* at  
38 <http://www.nwcg.gov/publications/449-2> for more detailed information.

- 39 Forest Service National Symbols Program distribution is through the Eastern  
40 Area Incident Support Cache (NEK). This material is coordinated by the USDA

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1 Forest Service, under advisement of the National Association of State Foresters'  
2 (NASF) Cooperative Forest Fire Prevention Committee (CFFP). Materials  
3 include Smokey Bear /Junior Forest Ranger prevention items and Woodsy Owl  
4 environmental educational materials.

5 NEK also distributes DOI Fire Education materials. The website at  
6 <http://www.symbols.gov/> contains the catalog of these materials, information  
7 about these programs, and online ordering instructions.

#### 8 **Type 3 Support Caches**

9 These caches directly support more than one agency and generally cover more  
10 than one administrative unit. They will maintain stocking levels to meet the  
11 identified needs of the multiple agencies for whom service is provided.

#### 12 **Type 4 Local Caches**

13 Numerous caches of this level are maintained by each agency. These caches will  
14 establish and maintain stocking levels to meet the initial response needs of the  
15 local unit(s).

#### 16 **Inventory Management**

##### 17 **System Implementation**

18 Each fire cache, regardless of size, should initiate and maintain a cache  
19 inventory management system. Agency management systems provide a check  
20 out/return concept that incorporates a debit/crediting for all items leaving the  
21 cache. This system is strictly followed in the Type 1 and 2 NISC's. Inventory  
22 management processes should be implemented for all Type 3 Support and Type  
23 4 Local caches.

##### 24 **Accountability**

25 Fire loss/use rate is defined as all property and supplies lost, damaged, or  
26 consumed on an incident. It is reported as a percentage that is calculated in  
27 dollars of items issued compared to items returned. Consumable items are not  
28 included in this total. All items stocked in agency fire caches will be categorized  
29 for return (loss tolerance/use rate) and accountability purposes.

##### 30 **Trackable Items**

31 Trackable items include items that a cache may track due to dollar value,  
32 sensitive property classification, or limited quantities. Available items that are  
33 considered trackable are usually engraved or tagged with a cache trackable  
34 identification number. These items must be returned to the issuing cache at the  
35 end of the incident use, or documentation must be provided to the issuing cache  
36 as to why it was not returned. All trackable items are also considered durable.  
37 Accountability for trackable items is expected to be 100 percent.

**1 Durable Items**

- 2 Durable items include cache items considered to have a useful life expectancy  
3 greater than one incident. High percentages of return for these items are  
4 expected. These items are not specifically cache identified/tagged/engraved.  
5 Durable items include water handling accessories, helicopter accessories, tents  
6 and camp items such as heaters, lights, lanterns, tables, chairs, hose, tools,  
7 backpack pumps, sleeping bags, pads, cots, and personal protective equipment.  
8 A 90% level of return is the expected threshold for durable items.

**9 Consumable Items**

- 10 Consumable items include items normally expected to be consumed during  
11 incident use. Consumable items returned in unused condition are credited to the  
12 incident. Examples of consumable items are: batteries, plastic canteens,  
13 cubitainers, forms, MREs, fusees, hot food containers, petroleum products, and  
14 medical supplies.

**15 Incident Management and Environmental Sustainability**

- 16 Every incident should seek opportunities to reduce unnecessary waste and limit  
17 impacts associated with management actions. This may be accomplished, for  
18 example, by promoting recycling and encouraging the use of alternative energy  
19 sources as long as such efforts do not compromise operational or safety  
20 objectives.

**21 Incident-to-Incident Transfer of Supplies and Equipment**

- 22 Transfer of supplies and equipment between incidents is not encouraged, due to  
23 the increased possibility of accountability errors. In instances when it is  
24 determined to be economically feasible and operationally advantageous, the  
25 following must be accomplished by the Supply Unit Leader from the incident  
26 that is releasing the items.

- 27 Documentation will be completed on the *Interagency Incident Waybill* (NFES  
28 1472) and must include the following:

- 29 • NFES Number.
- 30 • Quantity.
- 31 • Unit of Issue.
- 32 • Description.
- 33 • Trackable ID number, if item is trackable.
- 34 • Receiving incident name, incident number, and resource request number.
- 35 • The Supply Unit Leader will send the waybill transfer information to the  
36 servicing NISC to maintain proper accountability recording.

- 37 Upon request, the servicing NISC can provide the Supply Unit Leader with an  
38 Outstanding Items Report or Incident Summary Report to facilitate accurate  
39 waybill documentation.



**1 Fire Loss Tolerance Reporting for Type 1 and 2 Incidents**

2 In order to help managers keep incident-related equipment and supply loss to a  
3 minimum, incident management teams (IMTs) are required to maintain  
4 accountability and tracking of these items. Guidelines and procedures to assist  
5 with this accountability are provided in Chapter 30 of the *Interagency Incident*  
6 *Business Management Handbook*. To further facilitate these procedures and  
7 provide oversight, a fire loss report has been developed that provides detailed  
8 information regarding used and trackable item use. This report has been  
9 accepted by NWCG for all wildland fire agencies and will be compiled for all  
10 Type 1 and Type 2 incidents. Investigations may be conducted in those cases  
11 where thresholds may have been exceeded.

12 These reports are compiled by the NISC servicing the particular incident.

13 Reports will then be forwarded to the responsible local office, with a copy to the  
14 state/regional FMO. The following steps must be followed to insure accurate  
15 reports:

- 16 • At the close of each incident, all property must be returned to the servicing  
17 NFES cache;
- 18 • If accountable/trackable property has been destroyed or lost, appropriate  
19 documentation must be provided to the cache for replacement and updating  
20 property records;
- 21 • All property purchased with emergency fire funds for an incident must be  
22 returned to the NFES cache system;
- 23 • All unused consumable and/or durable NFES items must be returned to the  
24 servicing NFES cache within 30 days of control of the incident; and
- 25 • Agency Administrators/fire management officers must review the fire loss  
26 report and recommend appropriate follow-up action if losses are excessive.  
27 Those actions and recommendations should be documented and filed in the  
28 final incident records.

**29 Incident Supply and Equipment Return Procedures**

30 Supplies and equipment ordered with suppression funds will be returned to the  
31 ordering unit at the close of the incident and dispersed in one of three ways:

- 32 • Items meeting NFES standards will be returned to the NISC for reuse  
33 within the fire supply system;
- 34 • Items not meeting the prescribed NFES standards will be purchased with  
35 program funds by the local unit if the items are needed for program use; or
- 36 • Items will be delivered to the unit's excess property program for disposal.

**37 Cache Returns and Restock Procedures**

38 All returns for credit and restock of caches to specific incident charges should be  
39 made within 30 days after the close of the incident. If that timeframe cannot be  
40 met, it is required that returns and restock be made during the same calendar  
41 year as items were issued. All returns should be tagged with appropriate incident  
42 number, accompanied by an interagency waybill identifying the appropriate

1 incident number, or accompanied by issue documents to ensure proper account  
2 credit is given. Any items returned after the calendar year of issue will be  
3 returned to multiple-fire charges, unless specific incident charge documentation  
4 (issues) can be provided with the return.

5 **Incident Replacement of Government Property**

6 Refer to the *IIBMH*, Chapter 30 for procedures governing property management  
7 relating to incident activities. The Agency Administrator is responsible for  
8 providing agency property management guidelines and/or procedures to incident  
9 personnel.

10 Damage or Loss for assigned property is addressed under *IIBMH* Chapter 30.  
11 Specialty or non-cache items originally provided by the home unit through the  
12 use of preparedness funds will be replaced by home unit funds if the loss is due  
13 to normal wear and tear. If the government property is damaged on the incident  
14 due to a specific event, e.g., wind event damages tent, the incident may, upon  
15 receipt of required documentation and proof of damage, authorize replacement  
16 using the *Incident Replacement Requisition (OF-315)*. Cache items will be  
17 replaced at the incident if available. Cache items that are not available at the  
18 incident may be authorized for restocking at the home unit via an authorized  
19 *Incident Replacement Requisition*.

20 For replacement of NFES items not carried by the National Incident Supply  
21 Cache responsible for supporting the incident (i.e., Wildland Firefighter's Pants,  
22 Type II), replacement must be authorized using the *Incident Replacement*  
23 *Requisition (OF-315)*, and should be accomplished by ordering the item from  
24 Defense Logistics Agency (DLA).

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## Chapter 12 Suppression Chemicals and Delivery Systems

### Policy for Use of Fire Chemicals

Use only products qualified and approved for intended use. Follow safe handling procedures, use personal protective equipment recommended on the product label and Material Safety Data Sheet (MSDS).

A current list of qualified products and approved uses can be found on the Wildland Fire Chemical Systems (WFCS) website at <http://www.fs.fed.us/rm/fire/wfcs/index.htm>.

Refer to local jurisdictional policy and guidance related to use of wildland fire chemicals for protection of historic structures.

Products must be blended or mixed at the proper ratio prior to being loaded into aircraft. Quality control and safety requirements dictate that mixing or blending of wildland fire chemicals be accomplished by approved methods.

### Types of Fire Chemicals

#### Long-Term Retardant

Long-term retardants contain fertilizer salts that change the way fuels burn. They are effective even after the water has evaporated. Retardants may be applied aerially by large air tanker, single engine airtanker (SEAT) and helicopter bucket. Some retardant products are approved for fixed tank helicopters. Some products are formulated specifically for delivery from ground sources. See the Qualified Products List (QPL) for specific uses for each product at <http://www.fs.fed.us/rm/fire/wfcs/index.htm>.

Recommended coverage levels and guidelines for use can be found in the 10 Principles of Retardant Application, NFES 2048, PMS 440-2 pocket card. Retardant mixing, blending, testing, and sampling requirements can be found at the WFCS website Lot Acceptance and Quality Assurance page <http://www.fs.fed.us/rm/fire/wfcs/laqa.htm>.

#### Fire Suppressant Foam

Fire suppressant foams are combinations of wetting and foaming agents added to water to improve the effectiveness of the water. They are no longer effective once the water has evaporated. Foam may be applied by engines, portable pumps, helicopters, and SEATs. Some agencies also allow application of foam from fixed-wing water scoopers. See the QPL for specific uses for each product.

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**1 Wet Water**

2 Using foam concentrates at a mix ratio of 0.1 percent will produce a wet water  
3 solution.

**4 Water Enhancer (Gel)**

5 Water enhancers, such as firefighting gels, are added to water to improve the  
6 viscosity and adhesion of water. They are not effective once the water has  
7 evaporated. These products may be used in structure protection within the  
8 wildland interface or on wildland fuels. They are fully approved for use in  
9 helicopter bucket and engine application. Many are also approved, at specific  
10 mix ratios, for use in SEATs, and fixed tank helicopters. See the QPL for  
11 specific uses for each product.

**12 Safety Information****13 Personnel Safety**

14 All qualified wildland fire chemicals meet minimum requirements (June 2007)  
15 in regard to aquatic and mammalian toxicity (acute oral toxicity, acute dermal  
16 toxicity, primary skin irritation, and primary eye irritation). Specifications for  
17 long-term retardants, fire suppression foams, and water enhancers can be found  
18 on the WFCS website.

19 Personnel involved in handling, mixing, and applying fire chemicals or solutions  
20 shall be trained in proper procedures to protect their health and safety and the  
21 environment. Approved fire chemicals can be irritating to the eyes. Personnel  
22 must follow the manufacturer's recommendations; including use of PPE, as  
23 found on the product label and product MSDS. The MSDSs for all approved fire  
24 chemicals can be found on the website  
25 <http://www.fs.fed.us/rm/fire/wfcs/msds.htm>.

26 Human health risk from accidental drench with fire chemicals can be mitigated  
27 by washing with water to remove any residue from exposed skin.

28 Containers of any fire chemical, including backpack pumps and engine tanks,  
29 should be labeled to alert personnel that they do not contain only water and the  
30 contents are not potable.

31 Slippery footing is a hazard at storage areas, unloading and mixing sites, and  
32 wherever applied. Because all fire chemical concentrates and solutions  
33 contribute to slippery conditions, all spills must be cleaned up immediately,  
34 preferably with a dry absorbent pad or granules. Firefighters should be aware  
35 that fire chemicals can conceal ground hazards. Wildland fire chemicals can  
36 penetrate and deteriorate leather boots, resulting in wet feet and potentially  
37 ruined leather.

1 **Aerial Application Safety**

2 Personnel and equipment in the flight path of intended aerial drops should move  
3 to a location that will decrease the possibility of being hit with a drop.

4 Personnel near aerial drops should be alert for objects (tree limbs, rocks, etc.)  
5 that the drop could dislodge. The Incident Response Pocket Guide (IRPG)  
6 provides additional safety information for personnel in drop areas.

7 During training or briefings, inform all fire personnel of environmental  
8 guidelines and requirements for fire chemicals application and avoid contact  
9 with waterways.

10 Avoid dipping from rivers or lakes with a helicopter bucket containing residual  
11 fire chemicals without first cleaning/washing down the bucket.

12 Consider setting up an adjacent reload site and manage the fire chemicals in  
13 portable tanks or terminate the use of chemicals for that application.

14 **Interagency Policy for Aerial and Ground Delivery of Wildland Fire**  
15 **Chemicals Near Waterways and Other Avoidance Areas**

16 This policy is an expansion and update for the 2000 and 2009 updated  
17 Guidelines for Aerial Delivery of all wildland fire chemicals, including  
18 retardant, foam, and water enhancers, which were established and approved by  
19 the Forest Service (FS) and the Department of the Interior (DOI). The policy  
20 includes additional avoidance areas (both aquatic and terrestrial) for aerial  
21 delivery of fire chemicals as designated by individual agencies and includes  
22 additional FS reporting requirements.

23 This policy does not require the helicopter or airtanker pilot-in-command to fly  
24 in such a way as to endanger his or her aircraft, other aircraft, or structures or  
25 compromise ground personnel safety.

Aerial Delivery Policy	Ground Delivery Policy
<ul style="list-style-type: none"> <li>• Avoid aerial application of all wildland fire chemicals within 300 feet (ft.) of waterways.</li> <li>• Additional mapped avoidance areas may be designated by individual agency.</li> <li>• Whenever practical, as determined by the fire incident commander, use water or other less toxic wildland fire chemical suppressants for direct attack or less toxic approved fire retardants in areas occupied by threatened, endangered, proposed, candidate or sensitive species (TEPCS) or their designated critical habitats.</li> </ul>	<ul style="list-style-type: none"> <li>• Avoid application of all wildland fire chemicals into waterways<sup>1</sup></li> </ul>

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1 <sup>1</sup> Delivery on the ground provides for more precise delivery of fire chemicals to  
2 target areas. Thus, delivery is allowed within the aquatic mapped avoidance  
3 areas provided chemicals do not reach the waterway. Because there is the  
4 potential for TEPCS, their designated critical habitats, or other resources such as  
5 cultural or heritage areas to occur in waterway buffers or additional mapped  
6 avoidance areas, it is advised that a resource advisor be consulted prior to  
7 application to determine best action or the potential for environmental effects.  
8 See reporting section below for requirements.

9 **Definition of Waterway**

10 Any body of water (including lakes, rivers, streams, and ponds) whether or not it  
11 contains aquatic life.

12 **Definition of Waterway Buffer**

13 300 ft. distance on either side of a waterway.

14 **Definition of Additional Mapped Avoidance Areas**

15 On FS lands, there may be areas requiring additional protection outside of the  
16 300-foot waterway buffer. This may include certain dry intermittent or  
17 ephemeral streams, areas designated for resource protection, as well as areas for  
18 the protection of TEPCS terrestrial habitats and population areas.

- 19 • *FS – Maps are available at <http://www.fs.fed.us/fire/retardant/index.html>.*

20 **Guidance for Pilots**

21 Pilots will avoid all waterways and additional mapped avoidance areas  
22 designated by individual agencies. To meet the 300-foot waterway buffer zone  
23 or additional mapped avoidance areas guideline, implement the following:

- 24 • All Aircraft: When approaching a waterway or other avoidance areas, the  
25 pilot shall terminate application of wildland fire chemical approximately  
26 300 feet before reaching the area. When flying over a waterway, the pilot  
27 shall not begin application of wildland fire chemical until 300 feet after  
28 crossing the far bank or shore. The pilot shall make adjustments for airspeed  
29 and ambient conditions such as wind to avoid the application of wildland  
30 fire chemicals within the 300-foot buffer zone. Riparian vegetation may be  
31 an indicator of waterways and pilots should confirm to the extent possible  
32 that no water is present before dropping.
- 33 • Prior to fire retardant application, all aerial supervision and/or pilots shall  
34 be briefed on the locations of all TEPCS or other avoidance areas in the  
35 vicinity.
- 36 • If operationally feasible, pilots or the aerial supervision shall make a 'dry  
37 run' over the intended application area and/or coordinate with ground  
38 resources to identify avoidance areas and waterways in the vicinity of the  
39 wildland fire.

- 1 • Pilots will be provided avoidance area maps and information at all briefings  
2 (if not dispatched from one geographic area/unit and delivering to another  
3 geographic area).
- 4 **Exceptions for Aerial Delivery of Long-Term Retardant on USDA Forest**  
5 **Service Lands (2011 Record of Decision)**
- 6 • Deviations from the policy are allowed only for the protection of life or  
7 safety (public and firefighter).
- 8 **Exceptions for All Other Agencies and All Other Fire Chemicals**
- 9 • When alternative line construction tactics are not available due to terrain  
10 constraints, congested area, life and property concerns or lack of ground  
11 personnel, it is acceptable to anchor the wildland fire chemical application  
12 to the waterway. When anchoring a wildland fire chemical line to a  
13 waterway, use the most accurate method of delivery in order to minimize  
14 placement of wildland fire chemical in the waterway (e.g., a helicopter  
15 rather than a heavy airtanker).
- 16 • Deviations from the policy are acceptable when life or property is  
17 threatened and the use of wildland fire chemical can be reasonably expected  
18 to alleviate the threat.
- 19 • When potential damage to natural resources outweighs possible loss of  
20 aquatic life, the unit administrator may approve a deviation from these  
21 guidelines.
- 22 **Reporting Requirements of Aerially Delivered Wildland Fire Chemicals**  
23 **Into Waterways, Waterway Buffer Areas and Mapped Avoidance Areas**
- 24 During training or briefings, inform field personnel of:
- 25 • Environmental guidelines for fire chemical application;  
26 • Requirements for avoiding contact with waterways;  
27 • Additional mapped avoidance areas as designated by individual agency; and  
28 • Their responsibility for upward reporting in the event of application, for  
29 whatever reason, into avoidance areas.
- 30 If application of wildland fire chemical occurs or anyone believes it may have  
31 been introduced within waterways, waterway buffered areas, or other mapped  
32 avoidance areas, the following is required as appropriate:
- 33 • They should inform their supervisor;  
34 • The information will be forwarded to incident management and the agency  
35 administrator, usually through the resource advisor;  
36 • The incident or host authorities must immediately contact specialists within  
37 the local jurisdiction; and  
38 • Notifications and reporting will be completed as soon as possible.



1 Procedures have been implemented for the required reporting. All information,  
2 including reporting tools and instructions are posted on the websites at  
3 <http://www.fs.fed.us/rm/fire/wfcs>; and <http://www.fs.fed.us/fire/retardant/>.

4 The FS has additional reporting requirements for threatened, endangered,  
5 proposed, candidate and FS listed sensitive species for aerially delivered fire  
6 retardant only. This requirement resulted from the Forest Service's acceptance  
7 of Biological Opinions received from the National Marine Fisheries Service  
8 (NMFS) and the U.S. Fish and Wildlife Service (FWS), and the *2011 Record of*  
9 *Decision (ROD) for Nationwide Aerial Application of Fire Retardant on*  
10 *National Forest System Lands*. The procedures, reporting tools, and instructions  
11 can be found at the same websites listed above.

#### 12 **Endangered Species Act (ESA) Emergency Consultation**

13 The following provisions are guidance for complying with the emergency  
14 section 7 consultation procedures of the ESA for wildland fire chemicals. These  
15 provisions do not alter or diminish an action agency's responsibilities under the  
16 ESA.

17 Where T&E species or their habitats are potentially affected by application of  
18 wildland fire chemicals, the following additional procedures apply and shall be  
19 documented in initial or subsequent fire reports:

- 20 • As soon as practicable after application of wildland fire chemical near  
21 waterways or other avoidance area as designated by agency, determine  
22 whether the application has caused any adverse effects to a T&E species or  
23 their habitat. This can be accomplished by the following:
  - 24 ○ Ground application of wildland fire chemical outside a waterway is  
25 presumed to avoid adverse effects to aquatic species and no further  
26 consultation for aquatic species is necessary;
  - 27 ○ Aerial application of wildland fire chemical outside 300 ft. (or in any  
28 additional buffer areas beyond 300 ft. established on NFS lands for  
29 certain species) of a waterway is presumed to avoid adverse effects to  
30 aquatic species and no further consultation for aquatic species is  
31 necessary;
  - 32 ○ Aerial application of wildland fire chemical within 300 ft. (or in any  
33 additional NFS lands buffer areas) of a waterway requires that the unit  
34 administrator determine whether there have been any adverse effects to  
35 T&E species within the waterway. If no adverse effects to aquatic T&E  
36 species or their habitats, no additional requirement to consult on aquatic  
37 species with FWS or NMFS is required; and/or
  - 38 ○ Application of wildland fire chemical within other avoidance areas as  
39 designated by agency requires the agency administrator to determine  
40 whether there have been any adverse effects to T&E species. If there  
41 are no adverse effects to species or their habitats there is no additional  
42 requirement to consult with FWS or NMFS.

- 1       ▪ *FS – Note: the FS has completed consultation with regulatory*  
2       *agencies (FWS and NOAA) for aerial delivery of fire retardant*  
3       *(only) in National Forest System lands; please refer to*  
4       *<http://www.fs.fed.us/fire/retardant/> for additional information and*  
5       *re-initiation of consultation requirements.*

6 If the action agency determines that there were adverse effects on T&E species  
7 or their habitats then the action agency must consult with FWS and NMFS, as  
8 required by 50 CFR 402.05 (Emergencies). Procedures for emergency  
9 consultation are described in the *Interagency Consultation Handbook*, Chapter 8  
10 (March, 1998). In the case of a long duration incident, emergency consultation  
11 should be initiated as soon as practical during the event. Otherwise, post-event  
12 consultation is appropriate. The initiation of the consultation is the responsibility  
13 of the unit administrator.

#### 14 **Operational Guidelines for Invasive Species**

15 Refer to Chapter 11 for guidance on minimizing potential transmission of  
16 invasive species.

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## Chapter 13

### Firefighter Training and Qualifications

#### Introduction

National Wildfire Coordinating Group (NWCG) sanctioned firefighters are trained and qualified according to the NWCG and other standards, as outlined below.

#### Standards

Firefighters must meet standards identified in the NWCG publication, *National Incident Management System: Wildland Fire Qualification System Guide* (PMS 310-1). The PMS 310-1 may be found at <http://www.nwcg.gov/publications/310-1>.

Federal agencies have consolidated minimum standards and information for frequently used positions not included in the PMS 310-1. The *Federal Wildland Fire Qualifications Supplement* can be found on the NWCG Qualifications web site at <http://www.nwcg.gov/sites/default/files/products/supplement-2015.pdf>.

Certain firefighters must meet standards identified in the *Interagency Fire Program Management Qualifications Standards and Guide* at <http://www.ifpm.nifc.gov>.

Agency standards for training and qualifications may exceed the minimum standards established by National Wildfire Coordinating Group (NWCG). Such additional standards will be approved by the Fire Directors, and implemented through the Incident Qualifications and Certification System (IQCS). Standards which may exceed the minimum standards established by NWCG are identified in:

- *BLM – BLM Standards for Fire Training and Workforce Development*, available at [http://www.blm.gov/nifc/st/en/prog/fire/training/fire\\_training.html](http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html).
- *FWS – The Fire Management Handbook*.
- *FS – The Forest Service Fire and Aviation Qualification Guide (FAQG)* at <http://www.fs.fed.us/fire/publications/>.

Federal agencies will accept each other's qualifications/certifications, regardless of jurisdiction and throughout the duration of the incident.

#### Qualification and Certification Process

Each unit with fire management responsibilities will establish an Incident Qualification Card qualification and certification process, which may include a qualification and certification committee. In areas cooperating with other

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- 1 federal, state, or local agencies, an interagency qualification and certification  
2 committee should be established and include representatives from each unit.
- 3 These qualification and certification committees provide management oversight  
4 and review of the wildland and prescribed fire positions under their jurisdiction.
- 5 The committee:
- 6 • Ensures that qualifications generated by IQCS or other agency systems for  
7 employees are valid by reviewing the training and experience of each  
8 employee.
  - 9 • Determines whether each employee possesses the personal characteristics  
10 necessary to perform the wildland and prescribed fire positions in a safe and  
11 efficient manner.
  - 12 • Makes recommendations to the appropriate Agency Administrator or  
13 designee who is responsible for final certification signature.
  - 14 • Develops interagency training needs and sponsors courses that can be  
15 offered locally.
  - 16 • Ensures training nominees meet minimum requirements for attending  
17 courses.

#### 18 **Non-NWCG Agency Personnel Qualifications**

19 Personnel from non-NWCG agencies meeting NWCG PMS 310-1 prerequisites  
20 can participate in and receive certificates for successful completion of NWCG  
21 courses. Agency employees can complete the Task Blocks, Evaluation Record  
22 and Verification/Certification sections of a cooperating organizations employee  
23 Position Task Book. Agency employees will not initiate or complete the Agency  
24 Certification sections of the Position Task Book for non-agency employees.

25 Personnel from agencies that do not subscribe to the NWCG qualification  
26 standards may be used on agency managed fires. Agency fire managers must  
27 ensure these individuals are only assigned to duties commensurate with their  
28 competencies, agency qualifications, and equipment capabilities.

#### 29 **Non-NWCG Agency Personnel Use on Prescribed Fire**

30 The NWCG PMS 310-1, *National Incident Management System: Wildland Fire*  
31 *Qualification System Guide*, establishes the minimum qualifications for  
32 personnel involved in prescribed fires on which resources of more than one  
33 agency are utilized—unless local agreements specify otherwise. This guide may  
34 be found at <http://www.nwcg.gov/publications/310-1>.

#### 35 **Incident Qualifications and Certification System (IQCS)**

36 The Incident Qualifications and Certification System (IQCS) is the fire  
37 qualifications and certification record keeping system. The Responder Master  
38 Record report provided by the IQCS meets the agency requirement for  
39 maintaining fire qualification records. The system is designed to provide

1 managers at the local, state/regional, and national levels with detailed  
2 qualification, experience, and training information needed to certify employees  
3 in wildland fire positions. The IQCS is a tool to assist managers in certification  
4 decisions. However, it does not replace the manager's responsibility to validate  
5 that employees meet all requirements for position performance based on their  
6 agency standards.

7 A hard copy file folder will be kept for each employee. The contents will  
8 include, but are not limited to training records for all agency required courses,  
9 evaluations from assignments, position task book verification, yearly updated  
10 IQCS forms, and the Responder Master Record (RPTC028) from IQCS. All  
11 records will be stored and/or destroyed in accordance with agency policies.

- 12 • **BLM** – *These policies can be found at*  
13 *<https://blmspace.blm.doi.net/wo/BLMrec/default.aspx>.*
- 14 • **BLM/NPS** – *IQCS account managers will have an IQCS delegation of*  
15 *authority from the certifying official. A delegation of authority can be found*  
16 *at <http://iqcsweb.nwcg.gov/articles/forms/70-delegation-of-authority>.*
- 17 • **FS** – *Forest Service Fire and Aviation Qualification Guide (FAQG) at*  
18 *<http://www.fs.fed.us/fire/publications/>.*

#### 19 **Certification of Non-Agency Personnel**

20 Non-agency firefighters will be certified by state or local fire departments, or  
21 private training providers approved by a Memorandum of Understanding  
22 (MOU) through their local GACC. Agencies will not assist in the  
23 administration, or sponsor the Work Capacity Test (WCT), as the certifying  
24 agency.

#### 25 **Incident Qualification Card**

26 The Agency Administrator (or delegate) is responsible for annual certification of  
27 all agency and Administratively Determined (AD) personnel serving on wildfire,  
28 prescribed fire, and all hazard incidents. This responsibility includes monitoring  
29 medical status, fitness, training, performance, and ensuring the responder meets  
30 all position performance requirements.

31 Training, medical screening, and successful completion of the appropriate WCT  
32 must be accomplished and documented. All Incident Qualification Cards issued  
33 to agency employees, with the exception of Emergency Firefighter (EFF-paid or  
34 temporary employees at the FFT2 level), will be printed using the IQCS.  
35 Incident Qualification Cards issued to EFF or temporary employees at the FFT2  
36 level may be printed without use of the IQCS.

37 Each agency will designate employees at the national, regional/state, and local  
38 levels as Fire Qualifications Administrators, who ensure all incident experience,  
39 incident training, and position Task Books for employees within the agency are  
40 accurately recorded in the IQCS. All records must be updated annually or  
41 modified as changes occur.

- 1 • **BLM – BLM Recertification Policy:** *If an employee (including an agency-*  
2 *sponsored AD) has lost currency in a position, the employee is converted to*  
3 *trainee status for that position. In order to regain full qualification for the*  
4 *position, the employee must demonstrate the ability to perform in the*  
5 *position as determined by the Certifying Official. Prior to recertification,*  
6 *the employee must:*
  - 7 ○ *Complete the BLM Recertification Evaluation found at*  
8 *[http://www.blm.gov/nifc/st/en/prog/fire/training/fire\\_training.html](http://www.blm.gov/nifc/st/en/prog/fire/training/fire_training.html).*
  - 9 ○ *Complete one or more evaluation assignments.*
  - 10 ○ *Complete any additional requirements as determined by the Certifying*  
11 *Official (e.g., additional assignments and/or courses).*
- 12 **NOTE:** *This policy only applies to positions for which a task book is*  
13 *required.*
- 14 • **NPS – Certification for Area Command and Type 1 Command and General**  
15 **Staff (C&GS) position task books will be done at the national office level;**  
16 **Type 2 C&GS, and any position task books issued to park fire management**  
17 **officers will be certified at the regional office level. All other position task**  
18 **books may be certified at the local unit level.**
- 19 • **NPS – It is NPS policy that two or more assignments be accomplished after**  
20 **completing a Position Task Book, and receiving certification, before an**  
21 **individual begins movement to the next higher level.**
- 22 • **FS – Refer to FSH 5109.17, chapter 10, and the FAQG.**

### 23 Incident Qualification Card Expiration Dates

24 Incident Qualification Cards for responders that possess qualifications requiring  
25 Work Capacity Tests (WCT) and the Annual Fireline Safety Refresher Training  
26 course (RT-130) are valid through the earliest expiration date (either fitness or  
27 refresher) listed on the card. Incident Qualification Cards for responders that  
28 possess qualifications that do not require WCT or RT-130 for issuance are valid  
29 for 12 months from the date the card is signed by a certifying official.

- 30 • **FS – The WCT is considered effective for 13 months from the date passed.**  
31 *If an employee is on an emergency assignment on the date their*  
32 *WCT/refresher expires, they will complete their assignment including any*  
33 *extensions. Upon return to their duty station, they must complete the*  
34 *WCT/refresher and acquire a new Incident Qualification Card prior to*  
35 *accepting any new assignments.*

### 36 Universal Training Requirements

37 All personnel filling NWCG recognized positions on the fireline must have  
38 completed:

- 39 • S-130 Firefighter Training (including the required field exercises);
- 40 • S-190 Introduction to Wildland Fire Behavior;
- 41 • L-180 Human Factors on the Fireline;

42

- 1 • ICS-100 Introduction to ICS; and
- 2 • IS-700A NIMS: An Introduction (or current version).

### 3 **Annual Fireline Safety Refresher Training**

4 Annual Fireline Safety Refresher Training is required for those positions  
5 identified in the NWCG 310-1. Annual Fireline Safety Refresher Training must  
6 include the following core components:

- 7 • **Entrapment Avoidance** – Use training and reference materials to study the  
8 risk management process as identified in the *Incident Response Pocket*  
9 *Guide* (IRPG) as appropriate to the participants, e.g., LCES, Standard  
10 Firefighting Orders, Watch Out Situations, Wildfire Decision Support  
11 System (WFDSS) direction, Fire Management Plan priorities, etc.;
- 12 • **Current Issues** – Review and discuss current topics which could be based  
13 on the new modules or areas of concern identified by your agency or  
14 geographic area. Review forecasts and assessments for the upcoming fire  
15 season and discuss implications for firefighter safety;
- 16 • **Fire Shelter** – Review and discuss last resort survival including escape and  
17 shelter deployment site selection. Conduct “hands-on” fire shelter  
18 inspections. Practice shelter deployments in applicable crew/module  
19 configurations (wearing fireline personal protective equipment during fire  
20 shelter practice can enhance the learning experience for students); and
- 21 • **Other Hazards and Safety Issues** – Choose additional hazard and safety  
22 subjects, which may include SAFENET, current safety alerts, site/unit-  
23 specific safety issues and hazards.

24 These core components must be sufficiently covered to ensure that personnel are  
25 aware of safety concerns and procedures and can demonstrate proficiency in fire  
26 shelter deployment. The minimum refresher training hour requirements for each  
27 agency is identified below. Training time may be extended in order to  
28 effectively complete this curriculum or to meet local training requirements.

- 29 • **BLM** – 4 hours.
- 30 • **NPS/FWS/FS** – No minimum hourly requirement; core topics as shown  
31 above will be covered.

32 The Annual Fireline Safety Refresher Training course (RT-130) is not a self-  
33 study course. Minimum requirements have been established for instructors for  
34 Annual Fireline Safety Refresher Training. These requirements will ensure that  
35 an appropriate level of expertise and knowledge is available to facilitate  
36 refresher training exercises and discussions.

- 37 • Lead instructors must be a qualified single resource boss.
- 38 • Unit instructors must be a qualified firefighter type one (FFT1).
- 39 • Adjunct instructors may be utilized to provide limited instruction in  
40 specialized knowledge and skills at the discretion of the lead instructor.



- 1 They must be experienced, proficient and knowledgeable of current issues  
2 in their field of expertise.
- 3 • All instructors will need the knowledge and skills to utilize current  
4 educational technology as it relates to the Wildland Fire Safety Training  
5 Annual Refresher (WFSTAR) website, such as video streaming,  
6 downloading interactive videos, and use of mobile applications and devices.
- 7 For additional information please refer to the current *NWCG Field Manager's*  
8 *Course Guide* (PMS 901-1) at <http://www.nwcg.gov/publications/901-1>.
- 9 Annual Fireline Safety Refresher Training will have a 12-month currency.  
10 Firefighters who receive initial fire training are not required to take Annual  
11 Fireline Safety Refresher Training in the same calendar year. A web site,  
12 <http://www.nifc.gov/wfstar/index.html>, titled *Wildland Fire Safety Training*  
13 *Annual Refresher (WFSTAR)*, is available to assist in this training.
- 14 Entrapment avoidance and deployment protocols are identified in the *Incident*  
15 *Response Pocket Guide (IRPG)* (PMS 461/NFES 1077). The guide contains a  
16 specific "Risk Management Process" and "Last Resort Survival Checklist."
- 17 • *BLM – The "Do What's Right" training is required annual training but is*  
18 *not a prerequisite for issuance of an Incident Qualification Card.*
- 19 **Physical Fitness**
- 20 **Physical Fitness and Conditioning**
- 21 Agency Administrators are responsible for ensuring the overall physical fitness  
22 of firefighters. Employees serving in wildland fire positions that require a fitness  
23 rating of arduous as a condition of employment are authorized one hour of duty  
24 time each work day for physical fitness conditioning. Employees serving in  
25 positions that require a fitness rating of moderate or light may be authorized up  
26 to three hours per week.
- 27 Fitness conditioning periods may be identified and structured to include aerobic  
28 and muscular exercises. Team sports are not authorized for fitness conditioning.  
29 Chapters 5, 6, 7, 8, and 9 and Appendices F, G, and H of *Fitness and Work*  
30 *Capacity 2009 ed.* (PMS 304-2, NFES 1596) and the Interagency Fire Fitness  
31 Program in the USFS *WCT Implementation Guide* provide excellent guidance  
32 concerning training specifically for the pack test, aerobic fitness programs, and  
33 muscular fitness training. (<http://www.nifc.gov/FireFit/index.htm>)
- 34 • *NPS – A fitness plan is required for all NPS personnel participating in a*  
35 *fitness program (DO-57). For health and fitness purposes, those who are*  
36 *fire-qualified at less than the arduous fitness level are not required to meet*  
37 *the mandatory fitness program requirements of DO-57 for wildland fire*  
38 *management. They are strongly encouraged to participate in the voluntary*  
39 *fitness program, and must still meet physical fitness/work capacity*

- 1 *requirements as outlined in the Wildland Fire Qualifications System Guide*  
2 *(310-1) for positions with Moderate and Light fitness requirements.*  
3 • **FWS** – Refer to Chapter 4, *Physical Fitness and Conditioning*.  
4 • **FS** – Forest Service direction is found in FSH 5109.17 and the FAQG.  
5 *NFFE Partnership bargaining unit employees may only be required to*  
6 *successfully complete the WCT once per year.*

#### 7 **Medical Examinations and Work Capacity Tests**

- 8 Agency Administrators and supervisors are responsible for the occupational  
9 health and safety of their employees performing wildland fire activities, and may  
10 require employees to take a medical examination at any time.  
11 • **FS** – See the *WCT Implementation Guide*.

12 Established medical qualification programs, as stated in 5 CFR 339, provide  
13 consistent medical standards for arduous positions in order to safeguard the  
14 health of employees whose work may subject them or others to significant  
15 health and safety risks due to occupational or environmental exposure or  
16 demand.

- 17 • **BLM/NPS/FWS** – If the HSQ or Annual Exam results in a status of  
18 “cleared,” but the Servicing Human Resource Officer (SHRO) or FMO has  
19 a specific concern about an employee's/applicant's capacity to meet the  
20 physical or medical requirements of a position, the agency may require the  
21 employee/applicant to report for a specific medical evaluation. For more  
22 information, contact your SHRO or agency Wildland Fire Safety Program  
23 Manager.

24 Any employee with an active worker's compensation (OWCP) case or other  
25 medical limitations must disclose any limiting factors/restrictions as part of the  
26 medical examination process.

27 Information on any medical records is considered confidential and must be kept  
28 in the employee's medical file.

#### 29 **Arduous Fitness Level – Department of Interior Wildland Firefighter** 30 **Medical Standards Program (DOI/MSP)**

31 All permanent, career-seasonal, temporary, Student Career Experience Program  
32 (SCEP) employees, and AD/EFF who participate in wildland fire activities  
33 requiring a fitness level of *arduous* must participate in the DOI-MSP at the  
34 appropriate level (see Examination Matrix on the MSP website) and must be  
35 cleared prior to attempting the WCT. Additional information regarding the DOI-  
36 MSP can be obtained at [http://www.nifc.gov/medical\\_standards/](http://www.nifc.gov/medical_standards/).

37 If any “yes” answer is indicated on the HSQ, an annual exam is required prior to  
38 the employee taking the Arduous WCT. Cost of the exam will be covered at the  
39 national level.

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1 If an examining clinician believes diagnostic testing beyond what is required by  
2 the Wildland Firefighter Medical Standards Program is needed to determine  
3 medical clearance, then agency approval is required before the tests are  
4 conducted. If the agency approves the clinician request, or requests further  
5 testing themselves, then the agency is responsible for payment. Additional  
6 testing or treatment requested by the employee/applicant shall be at their own  
7 expense.

8 Employees or applicants who fail to meet the Federal Interagency Wildland  
9 Firefighter Medical Qualification Standards as a permanent, seasonal/temporary,  
10 or term employee may not perform as an AD/EFF for arduous duty positions.

11 If a Department of the Interior arduous duty wildland firefighter (WLFF)  
12 develops a change in medical status (injury or illness) between yearly medical  
13 exams or HSQs that prevents them from performing arduous duty lasting longer  
14 than three consecutive weeks, the WLFF is required to report this change to  
15 his/her supervisor who can request additional medical information and  
16 reevaluate the WLFF clearance status.

- 17 • *NPS – The law enforcement medical exam for NPS rangers, who are*  
18 *collateral duty wildland firefighters, will suffice for MSP clearance.*
- 19 • *NPS – Medical clearance must be entered into IQCS.*
- 20 • *FWS – Periodicity requirements for Refuge law enforcement examinations*  
21 *will be applied to arduous duty wildland fire positions. Law enforcement*  
22 *officers wishing to perform in NWCG PMS 310-1 or USFWS agency-*  
23 *specific wildland fire positions with an arduous fitness requirement must*  
24 *pass the arduous work capacity test on an annual basis. The HSQ will be*  
25 *used for off exam years prior to arduous work capacity testing.*
- 26 • *FS – Refer to current agency direction at*  
27 *[http://www.fs.fed.us/fire/safety/wct/wct\\_index.html](http://www.fs.fed.us/fire/safety/wct/wct_index.html).*

#### 28 **Medical Exam Process for Light and Moderate Fitness Levels**

29 This section applies to employees who are only required to complete the WCT  
30 at the light or moderate fitness level.

31 If any “Yes” answer is indicated on the HSQ, a medical examination is required  
32 prior to the employee taking the WCT.

33 Medical examinations will be performed utilizing the *Certificate of Medical*  
34 *Exam, U.S. Office of Personnel Management OF-178*. Stress EKGs are not  
35 required as part of the medical examination and will only be approved if  
36 recommended and administered by the medical examining physician. Cost for  
37 exams will be borne by the home unit. If medical findings during exam require  
38 further evaluation, then the cost of any further evaluation or treatment is borne  
39 by the employee/applicant. Costs for additional tests specifically requested by  
40 the agency will be borne by the home unit.

- 41 • *FS – Medical exams will be paid from a Washington Office fund code.*

- 1 If the SHRO or FMO has a direct concern about an employee's/applicant's  
2 capacity to meet the physical or medical requirements of a position, the agency  
3 may require the employee/applicant to report for a specific medical evaluation.  
4 For more information, contact your SHRO or agency Wildland Fire Safety  
5 Program Manager.
- 6 Standards for medical examinations using the OF-178 for light and moderate  
7 positions are available at  
8 [http://www.blm.gov/nifc/st/en/prog/fire/more/human\\_resources/forms.html](http://www.blm.gov/nifc/st/en/prog/fire/more/human_resources/forms.html).
- 9 The examining physician will submit the completed OF-178 (and applicable  
10 supplements) to the employee's servicing human resources office, where it will  
11 be reviewed and retained in the employee's medical file.
- 12 • *NPS – The law enforcement medical exam for NPS rangers, who are*  
13 *collateral duty wildland firefighters, will suffice for arduous, moderate, and*  
14 *light fitness level clearance.*
  - 15 • *FWS – Periodicity requirements for Refuge law enforcement examinations*  
16 *will be applied to light or moderate. Law enforcement officers wishing to*  
17 *perform in NWCG PMS 310-1 or USFWS agency-specific wildland fire*  
18 *positions with a light or moderate fitness requirement must pass the*  
19 *appropriate level work capacity test on an annual basis. The HSQ will be*  
20 *used for off exam years prior to light or moderate work capacity testing.*
  - 21 • *FS – The completed OF-178 is submitted to the Reviewing Medical Officer*  
22 *for the Agency to review and medically clear.*

### 23 **Health Screen Questionnaire (HSQ)**

24 Title 5 CFR Part 339 – Medical Qualification Determinations, which provides a  
25 determination of an individual's fitness-for-duty, authorizes solicitation of this  
26 information.

27 The approved OMB Health Screen Questionnaire (HSQ) may be found at  
28 [http://www.nifc.gov/medical\\_standards/documents/NewExamProcess/HSQ\\_v03](http://www.nifc.gov/medical_standards/documents/NewExamProcess/HSQ_v03)  
29 2013.pdf.

30 The information on the HSQ is considered confidential and once reviewed by  
31 the test administrator/coordinator to determine if the WCT can be administered,  
32 it must be kept in the employee's medical file (EMF). This file may only be  
33 viewed by Human Resource Management (HRM) or Safety personnel.

- 34 • *FS – See Work Capacity Tests for Wildland Fire Qualifications*  
35 *Implementation Guide at*  
36 *[http://www.fs.fed.us/fire/safety/wct/wct\\_index.html](http://www.fs.fed.us/fire/safety/wct/wct_index.html).*

### 37 **Work Capacity Test (WCT) Categories**

38 The *NWCG National Incident Management System: Wildland Fire Qualification*  
39 *System Guide* (PMS 310-1) identifies fitness levels for specific positions. There  
40 are three fitness levels—Arduous, Moderate, and Light—which require an

- 1 individual to demonstrate their ability to perform the fitness requirements of the
- 2 position. Positions in the “no fitness level required” category are normally
- 3 performed in a controlled environment, such as an incident base.
- 4 Law Enforcement physical fitness standard is accepted as equivalent to a “light”
- 5 WCT work category.

#### 6 Work Capacity Test Categories

WCT Category	Distance	Weight	Time
Arduous Pack Test	3 miles	45 lb	45 min
Moderate Field Test	2 miles	25 lb	30 min
Light Walk Test	1 mile	None	16 min

- 7 • **Arduous** – Duties involve field work requiring physical performance with
- 8 above average endurance and superior conditioning. These duties may
- 9 include an occasional demand for extraordinarily strenuous activities in
- 10 emergencies under adverse environmental conditions and over extended
- 11 periods of time. Requirements include running, walking, climbing, jumping,
- 12 twisting, bending, and lifting more than 50 pounds; the pace of the work
- 13 typically is set by the emergency conditions.
- 14 • **Moderate** – Duties involve field work requiring complete control of all
- 15 physical faculties and may include considerable walking over irregular
- 16 ground, standing for long periods of time, lifting 25 to 50 pounds, climbing,
- 17 bending, stooping, twisting, and reaching. Occasional demands may be
- 18 required for moderately strenuous activities in emergencies over long
- 19 periods of time. Individuals usually set their own work pace.
- 20 • **Light** – Duties mainly involve office type work with occasional field
- 21 activity characterized by light physical exertion requiring basic good health.
- 22 Activities may include climbing stairs, standing, operating a vehicle, and
- 23 long hours of work, as well as some bending, stooping, or light lifting.
- 24 Individuals can usually govern the extent and pace of their physical activity.

#### 25 Work Capacity Test (WCT) Administration

26 The Work Capacity Test (WCT) is the official method of assessing wildland  
 27 firefighter fitness levels. General guidelines can be found in the *Work Capacity*  
 28 *Tests for Wildland Firefighters, Test Administrator's Guide* (PMS 307, NFES  
 29 1109).

- 30 • **FS** – for FS direction on WCT administration, refer to “FS Work Capacity  
 31 *Tests for Wildland Fire Qualifications Implementation Guide*” at  
 32 [http://www.fs.fed.us/fire/safety/wct/wct\\_index.html](http://www.fs.fed.us/fire/safety/wct/wct_index.html).

33 WCT Administrators must ensure that WCT participants have been medically  
 34 cleared, either through the HSQ, Wildland Firefighter Medical Qualification  
 35 Standards, or agency specific medical examination.

- 1 At a minimum, WCTs are administered annually to all employees, including  
2 AD/EFF who will be serving in wildland fire positions that require a fitness  
3 level. The currency for the WCT is 12 months.
- 4 • *FS – Currency for WCT is 13 months.*
- 5 The WCT results shall be documented on the WCT Record available online as  
6 Appendix O at [http://www.nifc.gov/policies/policies\\_main.html](http://www.nifc.gov/policies/policies_main.html). The WCT  
7 Record captures information that is covered under the Privacy Act and should be  
8 maintained in accordance with agency Freedom of Information Act (FOIA)  
9 guidelines.
- 10 Administration of the WCT of non-federal firefighters is prohibited for liability  
11 reasons. Potential emergency firefighters who would be hired under Emergency  
12 Hire authority by the agency must be in AD pay status or sign an agency-  
13 specific volunteer services agreement prior to taking the WCT.
- 14 A Job Hazard Analysis (JHA) or Risk Assessment (RA) shall be developed and  
15 approved for each field unit prior to administering the WCT. Administer the  
16 test using the JHA/RA as a briefing guide.
- 17 • *BLM – A risk assessment shall be developed and approved for each field*  
18 *unit prior to administering the WCT.*
- 19 The local unit shall prepare a medical response plan (such as an ICS-206 form),  
20 evaluate options for immediate medical care and patient transport, and identify  
21 closest emergency medical services. A minimum of a qualified Medical First  
22 Responder/Emergency Medical Responder (EMR) must be on site during WCT  
23 administration. Based upon a thorough evaluation of potential medical treatment  
24 and evacuation scenarios, a higher level of on-site emergency medical  
25 qualifications and equipment may be warranted (e.g., Emergency Medical  
26 Technician (EMT) or paramedic).
- 27 An Automatic External Defibrillator (AED) is required on-site during all WCTs.
- 28 Personnel taking the WCT will only complete the level of testing (Pack, Field,  
29 Walk) required by the highest fitness level identified for a position on their  
30 Incident Qualification Card. Employees shall not take the WCT unless they have  
31 an Incident Qualification Card qualification that requires it, and only at the  
32 fitness level required by that position as identified in the NWCG 310-1 or  
33 agency-specific guidance or policy.
- 34 Treadmills are not approved for Work Capacity Testing.
- 35 WCT results must be entered into the IQCS annually to update the fitness level  
36 and date that will appear on the Incident Qualification Card. WCT dates entered  
37 in IQCS will reflect the date the employee passed the fitness test. The results of

1 the most recent WCT will always supersede the results of any previous WCT,  
2 even if previous WCTs were within the currency period.

- 3 • *NPS/FWS – Law Enforcement Officers are required to provide a copy of*  
4 *the medical clearance for verification and tracking purposes to the*  
5 *appropriate incident qualifications and certifications system (IQCS)*  
6 *account manager. Account managers will reflect the appropriate*  
7 *examination type and currency for the Law Enforcement Officer*  
8 *examinations in the physical examinations portion of the IQCS system.*

#### 9 **Work Capacity Test – Retesting**

10 Those who do not pass the WCT will be provided another opportunity to retest.  
11 Employees will have to wait at least 48 hours before retaking the WCT. If an  
12 employee sustains an injury (verified by a licensed medical provider) during a  
13 test, the test will not count as an attempt. Once an injured employee has been  
14 released for full duty, the employee will be given time to prepare for the test (not  
15 to exceed 4 weeks). The numbers of retesting opportunities that will be allowed  
16 include:

- 17 • Three opportunities total for permanent employees required to pass a test  
18 for duties in the fire program.
- 19 • One opportunity for temporary employees required to pass a test (a second  
20 chance maybe provided at the discretion of fire management).
- 21 ○ *FS – Direction can be found in the WCT Implementation Guide.*

#### 22 **Minimum Age Requirements for Hazardous Duty Assignments on Federal** 23 **Incidents**

24 Persons under 18 years old will not perform hazardous duties during wildland  
25 fire management operations on federal jurisdictions.

#### 26 **Engine Modules**

27 Staffing levels and specific requirements for engine personnel may be found in  
28 Chapter 14, Firefighting Equipment.

#### 29 **Helicopter Modules**

30 Staffing levels and specific requirements for helicopter personnel may be found  
31 in Chapter 16, Aviation.

#### 32 **Smokejumpers (SMKJ)**

33 Smokejumpers provide professional and effective fire suppression, fuels  
34 reduction, and fire management services to help land managers meet objectives.

#### 35 **Smokejumper Policy**

36 Smokejumper operations are guided by direction in the interagency section of  
37 the *Interagency Smokejumper Operations Guide (ISOG)*.

- 1 Each base will comply with smokejumper operations standards. The arduous
- 2 duties, specialized assignments, and operations in a variety of geographic areas
- 3 require smokejumpers to have uniform training, agency approved equipment,
- 4 communications, organization, and operating procedures.

**5 Smokejumper Communications**

- 6 All smokejumpers carry programmable radios and are proficient in their use and
- 7 programming procedures.

**8 Smokejumper Training**

- 9 To ensure proficiency and safety, smokejumpers complete annual training that
- 10 covers aspects of aviation, parachuting, fire suppression tactics, administrative
- 11 procedures, and safety related to the smokejumper mission and fire operations.
- 12 The training program for first-year smokejumpers is four weeks long.
- 13 Candidates are evaluated to determine:
  - 14 • Level of physical fitness;
  - 15 • Ability to learn and perform smokejumper skills;
  - 16 • Ability to work as a team member;
  - 17 • Attitude; and
  - 18 • Ability to think clearly and remain productive in a stressful environment.

**19 Smokejumper Target Qualifications**

Position	IQCS Target	Smokejumper Training Target
Department Managers	T1 and T2 C&G	
Spotter	ICT3, DIVS, ATGS RXB2, SOFR	
Lead Smokejumper	STLD, TFLD	Senior Rigger, FOBS
Smokejumper	ICT4, CRWB, FIRB	FEMO
Rookie Smokejumper	ICT5, FFT1	

**20 Smokejumper Medical Standards**

- 21 Smokejumper medical standards are the same as the Federal Interagency
- 22 Wildland Firefighter Medical Standards-Arduous Duty Wildland Firefighter.

**23 Smokejumper Physical Fitness Standards**

- 24 The national minimum standards for smokejumpers are:
  - 25 • 1.5 mile run in 11:00 minutes or less;
  - 26 • 45 sit-ups;
  - 27 • 25 pushups;
  - 28 • 7 pull-ups;



- 1 • 110 lb. pack-out over 3 miles/level terrain/90 minutes\*; and
- 2 • Successful completion of the WCT at the arduous level.
- 3 \*This element is tested during Smokejumper Rookie Training.
- 4 ○ **BLM** – Refer to Chapter 2 for physical fitness standards.

#### 5 **Interagency Hotshot Crews (IHC)**

6 Interagency Hotshot Crews provide an organized, mobile, and skilled hand crew  
7 for all phases of wildfire suppression. IHCs are comprised of 18-25 firefighters  
8 and are used primarily for wildfire suppression, fuels reduction, and other fire  
9 management duties. IHC's are capable of performing self-contained initial  
10 attack suppression operations, and commonly provide incident management  
11 capability at the Type 3 or 4 levels.

#### 12 **IHC Policy**

13 IHC standards provide consistent planning, funding, organization, and  
14 management of the agency IHCs. The sponsoring unit will ensure compliance  
15 with the established standards. The arduous duties, specialized assignments, and  
16 operations in a variety of geographic areas required of IHCs dictate that training,  
17 equipment, communications, transportation, organization, and operating  
18 procedures are consistent for all agency IHCs.

19 As per agency policy, all IHCs will be managed under the *Standards for*  
20 *Interagency Hotshot Crew Operations (SIHCO)*.

- 21 • **BLM/NPS** – *BLM Preparedness Review Checklist #18 (Hotshot Crew)*  
22 *supersedes the checklist found in the SIHCO.*
- 23 • **BLM** – *Additional guidance for BLM IHCs is contained in Chapter 2.*

#### 24 **IHC Certification**

25 The process for IHC certification is found in the *Standards for Interagency*  
26 *Hotshot Crew Operations (SIHCO)*.

#### 27 **Annual Crew Pre-Mobilization Process**

28 The superintendent of crews holding IHC status the previous season are required  
29 to complete the Annual IHC Mobilization Checklist (*SIHCO*, Appendix C) and  
30 send the completed document to the local GACC prior to making the crew  
31 available for assignment each season.

#### 32 **Annual IHC Readiness Review**

33 On an annual basis the superintendent of crews holding IHC status the previous  
34 season are required to complete the Annual IHC Preparedness Review (*SIHCO*  
35 Appendix B). This process is designed to evaluate crew preparedness and  
36 compliance with *SIHCO*. The annual review will be conducted while the crew is  
37 fully staffed and operational. The review is not required prior to a crew being  
38 made available for incident assignment at the beginning of their availability

1 period. When a review document is completed, the document is kept on file at  
2 the local (host) unit fire management office.

### 3 **IHC Organization**

4 Individual crew structure will be based on local needs using the following  
5 standard positions: Superintendent, Assistant Superintendent, Squad Leader,  
6 Skilled Firefighter, and Crewmember.

- 7 • *BLM/NPS – IHCs have the option of traveling with 25 personnel when on*  
8 *incident assignments as authorized by the local unit. IHC superintendents*  
9 *will obtain prior approval from the dispatching GACC when the assignment*  
10 *requires fixed wing transport and the crew size is greater than 20.*

### 11 **IHC Availability Periods**

12 IHCs will have minimum availability periods as defined in the *SIHCO*.  
13 Availability periods may exceed the required minimum availability period. The  
14 Crew Superintendent will inform the local supervisor and the GACC of any  
15 changes in the crew's availability.

### 16 **National IHC Status Reporting System**

17 IHCs will report status through the National IHC Status Reporting System. IHC  
18 superintendents will regularly update the system with any change in crew status  
19 and/or current utilization when on assignment.

20 IHCs may report status by three methods:

- 21 • Via e-mail to [BLM\\_FC\\_Crews@blm.gov](mailto:BLM_FC_Crews@blm.gov) (preferred method);
- 22 • Via the internet to the Hotshot Status submission form (link available from  
23 the Crew page of the NICC website); or
- 24 • Contacting the NICC Crew Desk at 208-387-5400.

### 25 **IHC Communications**

26 IHCs will provide a minimum of five programmable multi-channel radios per  
27 crew as stated in the *SIHCO*.

### 28 **IHC Transportation**

29 Crews will be provided adequate transportation. The number of vehicles used to  
30 transport a crew should not exceed five. All vehicles must adhere to the certified  
31 maximum Gross Vehicle Weight (GVW) limitations.

### 32 **Other Hand Crews**

#### 33 **Policy**

34 All crews must meet minimum crew standards as defined below as well as any  
35 additional agency, state, or contractual requirements. Typing will be identified at  
36 the local level with notification made to the local GACC.

## 1 MINIMUM CREW STANDARDS FOR NATIONAL MOBILIZATION

Minimum Standards	Type 1	Type 2 with IA Capability	Type 2
<b>Fireline Capability</b>	Initial attack/can be broken up into squads, fireline construction, complex firing operations (backfire)	Initial attack/can be broken up into squads, fireline construction, firing to include burnout	Initial attack, fireline construction, firing as directed
<b>Crew Size</b>	18-20	18-20	18-20
<b>Leadership Qualifications</b>	Permanent Supervision Supt: TFLD, ICT4, FIRB Asst Supt: STCR, ICT4 3 Squad Bosses: ICT5 2 Senior Firefighters: FFT1	Crew Boss: CRWB 3 Squad Bosses: ICT5	Crew Boss: CRWB 3 Squad Bosses: FFT1
<b>Language Requirement</b>	All senior leadership including Squad Bosses and higher must be able to read and interpret the language of the crew as well as English.	Same as Type 1	Same as Type 1
<b>Experience</b>	80% 1 season	60% 1 season	20% 1 season
<b>Full Time Organized Crew</b>	Yes (work and train as a unit 40 hrs per week)	No	No
<b>Communications</b>	5 programmable radios	4 programmable radios	4 programmable radios
<b>Sawyers</b>	3 agency qualified	3 agency qualified	None
<b>Training</b>	As required by the <i>SIHCO</i> or agency policy prior to assignment	Basic firefighter training and/or annual firefighter safety refresher prior to assignment	Basic firefighter training and/or annual firefighter safety refresher prior to assignment
<b>Logistics</b>	Crew level agency purchasing authority	No purchasing authority	No purchasing authority
<b>Maximum Weight</b>	5,300 lbs	5,300 lbs	5,300 lbs
<b>Dispatch Availability</b>	Available nationally	Available nationally	Variable

Minimum Standards	Type 1	Type 2 with IA Capability	Type 2
<b>Production Factor</b>	1.0	.8	.8
<b>Transportation</b>	Own transportation	Transportation needed	Transportation needed
<b>Tools and Equipment</b>	Fully equipped	Not equipped	Not equipped
<b>Personal Gear</b>	Arrives with: crew First Aid kit, personal first aid kit, headlamp, 1 qt. canteen, web gear, sleeping bag	Same as Type 1	Same as Type 1
<b>PPE</b>	All standard designated fireline PPE	All standard designated fireline PPE	All standard designated fireline PPE
<b>Certification</b>	Must be annually certified by the local host unit Agency Administrator or designee prior to being made available for assignment.	N/A	N/A

- 1 • **BLM** – for additional standards and certification requirements, refer to  
2 Chapter 2.

### 3 **Wildland Fire Modules (WFM)**

4 The primary mission of a WFM is to provide an innovative, safe, highly mobile,  
5 logistically independent, and versatile fire module with a primary commitment  
6 to maintain fire's role as a natural ecological process for wildland fire  
7 management and incident operations.

8 WFMs are comprised of 7-10 firefighters. The WFM program facilitates the use  
9 of fire and other management techniques involving planned and unplanned  
10 wildland fire events. WFMs are highly skilled and versatile fire crews, which  
11 provide technical and ecological based expertise in the areas of long term  
12 planning, ignitions, holding, and suppression, and fire effects monitoring. For  
13 more information please refer to PMS 430: *Interagency Standards for Wildland*  
14 *Fire Module Operations (ISWFMO)*.

### 15 **WFM Policy**

16 All WFM operations will be conducted adhering to the *Interagency Standards*  
17 *for Wildland Fire Module Operations (ISWFMO)*, PMS 430. Sponsoring units in  
18 conjunction with the appropriate Geographic Area Coordination Center will  
19 ensure compliance of all WFMs according to the standards set within the

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- 1 ISWFM. The arduous duties, specialized assignments, and operations in a  
 2 variety of geographic areas require WFMs to have uniform training, agency  
 3 approved equipment, communications, organization, and operating procedures.
- 4 **WFM Types and Certification**  
 5 WFMs ready for assignment will be certified as Type 1 WFM (WFM1) or Type  
 6 2 WFM (WFM2). Refer to the *Interagency Standards for Wildland Fire Module*  
 7 *Operations (ISWFM)* – PMS 430 for additional information.
- 8 **WFM Availability Periods**  
 9 WFMs will have minimum availability periods as defined in the *ISWFM*.  
 10 Availability for Type 1 WFMs may exceed the minimum period defined. Type 1  
 11 WFMs will be available for off unit assignment during the designated 90 day  
 12 availability period. The module leader will inform the local supervisor and the  
 13 GACC of any changes to the modules availability.
- 14 **WFM Organization**  
 15 Individual module structures vary based on local and agency needs using the  
 16 following standard positions: Module Leader/ Foreman, Assistant Leader/  
 17 Foreman, Lead Firefighter, Senior Firefighter, Crewmember.

18 **Minimum WFM Standards for Interagency Mobilization**

Minimum Standards	Type 1	Type 2
<b>Fireline Capability</b>	Ability to form separate logistically self-sufficient independent groups, fire line construction, complex firing operations(backfire), monitoring, strategic planning, fire reconnaissance, public information.	Monitoring, fireline construction, firing to include burnout.
<b>Crew Size</b>	7-10	7-10
<b>Leadership Qualifications</b>	<ul style="list-style-type: none"> <li>- Qualifications are not tied to a particular position within the WFM. All modules will have the following qualifications: TFLD, RXB2*, ICT4, CRWB, FIRB, FOBS</li> <li>- Module Lead: TFLD, CRWB</li> <li>- Asst. Module Lead: ICT4, FEMO</li> <li>- 1 Squad Boss: ICT5</li> <li>- 2 Senior Firefighters: FFT1</li> </ul> *RXB2 (1) could be any of the module members	<ul style="list-style-type: none"> <li>- Crew Boss: CRWB</li> <li>- 1 Squad Boss: ICT5</li> </ul>

Minimum Standards	Type 1	Type 2
<b>Language Requirement</b>	All senior leadership, including Squad Bosses and higher, must be able to read and interpret the language of the crew as well as English.	Same as Type 1
<b>Experience</b>	90% > 1 season	60% > 1 season
<b>Full Time Organized Crew</b>	Yes (work and train as a unit 40 hrs. per week, 90 continuous days)	No
<b>Communications</b>	5 programmable radios	4 programmable radios
<b>Sawyers</b>	2 agency qualified	1 agency qualified
<b>FEMO</b>	2	2 (1 of 2 can be trainee)
<b>Training</b>	As required by the <i>ISWFM</i> O prior to assignment	Basic firefighter training or RT-130 prior to assignment
<b>Medical First Responder Training</b>	Yes	No
<b>Logistics</b>	Multiple crew level agency purchasing authorities	Generally no purchasing authority, may need assistance by incident logistics
<b>Dispatch Availability</b>	Availability determined by sponsoring agency	Availability variable by sponsoring agency
<b>Mobilization Time</b>	Within 2 hours of receipt of resource order when on duty, 8 hours when off duty	Within 24 hours of receipt of resource order.
<b>Transportation</b>	Own transportation	Transportation needed
<b>Tools and Equipment</b>	Fully equipped for each geographic region.	May need assistance by incident logistics
<b>Specialized Digital, Remote Operations, Monitoring, Equipment</b>	Yes	No
<b>Personal Gear</b>	Arrives with: crew First Aid kit, personal first aid kit, headlamp, 1 quart canteen, web gear, sleeping bag	Arrives with: crew First Aid kit, personal first aid kit, headlamp, 1 quart canteen, web gear, sleeping bag
<b>PPE</b>	All standard designated fireline PPE	All standard designated fireline PPE
<b>Certification</b>	Must be annually certified by the Regional or State Office of the host unit Agency Administrator or designee prior to being made available for assignment.	Must complete the mobilization checklist by the local host unit or Agency Administrator or designee prior to being made available for assignment.

- 1 • **BLM** – BLM WFMs will meet standards identified in the Interagency  
2 Standards for Wildland Fire Module Operations (PMS 430). In addition,  
3 BLM WFMs will meet the following requirements:
  - 4 ○ All BLM WFMs will meet the standards for Type 1 WFMs identified in  
5 the Interagency Standards for Wildland Fire Module Operations. Type  
6 2 WFMs will not be formed, sponsored, or statused in the Resource  
7 Ordering and Status System (ROSS) by BLM units.
  - 8 ○ Approval from the Assistant Director, Fire and Aviation is required  
9 prior to establishing and/or statusing new Type 1 WFMs.
  - 10 ○ Any BLM unit may provide personnel to WFMs sponsored by another  
11 agency. All BLM personnel must meet the standards outlined in the  
12 Interagency Standards for Wildland Fire Module Operations, and the  
13 Interagency Standards for Fire and Fire Aviation Operations.
  - 14 ○ Units may utilize Type 1 and/or Type 2 WFMs for BLM incidents.  
15 Incident commanders will order the appropriate resource to  
16 accomplish incident objectives.
  - 17 ○ Fire Suppression Modules and WFMs are separate and distinct  
18 resources. The BLM has established standards for fire suppression  
19 modules in Chapter 2 of this publication. Fire managers and incident  
20 commanders should order the appropriate resource to accomplish  
21 incident objectives.
- 22 • **NPS** – Modules are coordinated regionally and mobilized/demobilized  
23 through established ordering channels through the GACCs.

#### 24 Agency Certified Positions

25 As a supplement to the qualifications system, certain agencies have identified  
26 the additional positions of Prescribed Fire Burn Boss 3 (RXB3) – see Chapter  
27 17; Engine Operator (ENOP) – see Chapter 2.

- 28 • **BLM** – Personnel hired by the BLM must meet requirements established in  
29 the position description. If the position description requires Incident  
30 Command System qualifications, only qualifications and minimum  
31 requirements specified in the NWCG Wildland Fire Qualifications Systems  
32 Guide (PMS 310-1) will be applied as selective factors and/or screen-out  
33 questions. To avoid reducing candidate pools, BLM-specific requirements  
34 that are supplemental to the PMS 310-1 may not be used as selective  
35 placement factors/screen-out questions. Supplemental BLM-specific  
36 training or qualification requirements may only be used as selective factors  
37 and/or screen-out questions when requested and justified by the selecting  
38 official, and approved by human resources. Impacts to the candidate pool  
39 must be addressed in the justification. As with all other BLM or DOI-  
40 specific training/experience requirements (e.g., Do What's Right training,  
41 purchase card training) that newly hired employees from other agencies  
42 may not have, the supervisor and IQCS certifying official are responsible  
43 for reconciling that employee's training and IQCS record after the  
44 employee has entered on duty. This may be accomplished by providing

- 1 additional training/experience or by manually awarding competencies as  
2 per established IQCS protocol.

### 3 Chainsaw Operators and Fallers

- 4 In 2014, NWCG established faller qualifications in the PMS 310-1. Agencies  
5 have established additional evaluation and certification requirements:
- 6 • **BLM/NPS**—Use of the NWCG position task books is required. The  
7 requirements for final evaluators for each position are as follows:
    - 8 ○ The individual tasks required for completion of the FAL3 PTB must be  
9 evaluated by a qualified FAL2 or FAL1. The Final Evaluator's  
10 Verification for a FAL3 trainee must be completed by a qualified FAL2  
11 or FAL1;
    - 12 ○ The individual tasks required for completion of the FAL2 PTB must be  
13 evaluated by a qualified FAL2 or FAL1. The Final Evaluator's  
14 Verification for a FAL2 trainee must be completed by a qualified  
15 FAL1;
    - 16 ○ The final certification of all wildfire faller positions will remain the  
17 responsibility of the IQCS Certifying Official.
    - 18 ○ All wildfire saw operation qualifications are maintained through the  
19 IQCS system and displayed on the Incident Qualification Card.
      - 20 ▪ **BLM** — The individual tasks required for completion of the FAL1  
21 PTB must be evaluated by a qualified FAL1. The Final Evaluator's  
22 Verification for a FAL1 trainee must be completed by a qualified  
23 FAL1 Evaluator. Each BLM State Fire Management Officer will  
24 certify and maintain a list of their current FAL1 Evaluators.
      - 25 ▪ **NPS** — The individual tasks required for completion of the FAL1  
26 PTB must be evaluated by a qualified FAL1. The Final Evaluator's  
27 Verification for a FAL1 trainee must be completed by a qualified  
28 FAL1.
      - 29 ▪ **FWS** — Follow evaluator qualification requirements listed in the  
30 FAL1, FAL2, and FAL3 position task books.
      - 31 ▪ **FS** — Use of the NWCG combined position task book for FAL1,  
32 FAL2, and FAL3 is not authorized for Forest Service use. Forest  
33 Service sawyers will continue to use agency specific certification  
34 processes outlined in Forest Service Handbook FSH 6709.11,  
35 section 22.48. A new Forest Service manual (FSM 2358) is  
36 anticipated for released in early 2016 and will restructure Forest  
37 Service crosscut and chain saw policy. In the interim:
        - 38 ○ Sawyers shall not use saws outside the limits of their certification or  
39 qualifications, except during formal evaluation proceedings or under  
40 the immediate supervision of a higher qualified sawyer.



- 1     ○ *All sawyers must comply with FS policy and the FSFAQG requirements*
- 2       *for FAL3, FAL2, or FAL1 to operate a chainsaw or crosscut saw on a*
- 3       *wildland fire incident. Requirements include:*
- 4       ▪ *Possess a current first aid and CPR certification (FSH 6709.11,*
- 5       *sec 52.3).*
- 6       ▪ *Initially complete a Nationally Recognized Sawyer Training*
- 7       *Course (Wildland Fire Chain Saws, S-212).*
- 8       ▪ *Completion of a field proficiency evaluation with appropriate saw*
- 9       *operator skill level along with restrictions (if any) noted on their*
- 10      *National Sawyer Certification Card.*
- 11     ○ *The National Sawyer Certification Card is valid for 3 years and is*
- 12       *subject to review any time prior to expiration. Minimum requirements*
- 13       *for sawyer training and field proficiency reevaluation include:*
- 14       ▪ *Completion of a knowledge refresher (classroom or field) and a*
- 15       *field proficiency evaluation equivalent to the initial evaluation.*
- 16       ▪ *Sawyer Instructors are required to be recertified by instructing at*
- 17       *least one NRSTC or refresher NRSTC every three years.*
- 18     ○ *FS sawyers may function as evaluators for partner agencies using the*
- 19       *FAL3 and FAL2 position task book.*
- 20     ○ *Fallers who are certified or recertify after October 1, 2014 will be*
- 21       *required to be certified in progression (i.e., must be FAL3 to be FAL2).*
- 22       *However if the initial evaluation is FAL2 the account manager shall*
- 23       *grant the position competency for FAL3. Those certified initially as*
- 24       *FAL1 will have position competencies for FAL2 and FAL3 granted.*
- 25     ○ *FS will accept other agency chainsaw certifications on incidents*
- 26       *occurring on FS lands provided they meet NWCG minimum standards.*
- 27     ○ *FS will accept a transferring employee's faller qualification if it was*
- 28       *certified following the PMS 310-1 standard.*

## Chapter 14 Firefighting Equipment

### 3 Introduction

4 The agency wildland fire program equipment resources include engines,  
5 dozers, water tenders, and other motorized equipment for fire operations.

### 6 Policy

7 Each state/region will comply with established standards for training,  
8 equipment, communications, organization, and operating procedures required  
9 to effectively perform arduous duties in multi-agency environments and  
10 various geographic areas.

11 Approved foam concentrate may be used to improve the efficiency of water,  
12 except near waterways where accidental spillage or over spray of the chemical  
13 could be harmful to the aquatic ecosystem, or other identified resource  
14 concerns.

### 15 Firefighting Engine/Water Tender Common Standards

#### 16 Driving Standard

17 Refer to driving standards in Chapter 7.

#### 18 Engine/Tactical Water Tender Water Reserve

19 Engine/tactical water tender operators will maintain at least 10 percent of the  
20 pumpable capacity of the water tank for emergency engine protection and  
21 drafting.

#### 22 Chocks

23 At least one set of wheel chocks will be carried on each engine/water tender  
24 and will be properly utilized whenever the engine is parked or left unattended.  
25 This includes engine/water tender operation in a stationary mode without a  
26 driver "in place."

#### 27 Fire Extinguisher

28 All engines/water tenders will have at least one 5 lb. ABC rated (minimum) fire  
29 extinguisher, either in full view or in a clearly marked compartment.

#### 30 Nonskid Surfaces

31 All surfaces will comply with National Fire Protection Association (NFPA)  
32 1906 Standard for Wildland Fire Apparatus requirements.

#### 33 First Aid Kit

34 Each engine/water tender shall carry, in a clearly marked compartment, a fully  
35 equipped 10-person first aid kit.

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**1 Gross Vehicle Weight (GVW)**

Each engine and water tender will have an annually certified weight slip in the vehicle at all times. Weight slip will show individual axle weights and total GVW. Operators of engines and water tenders must ensure that the maximum certified gross vehicle and axle weight ratings are never exceeded, including gear, personnel, and fuel. The NFPA 1906 standard of 250 pounds per seat position for each person and their personal gear will be used to calculate the loaded weight.

- *FS – Refer to FSH 7109.19, Chapter 30 for calculation of Rough Road Factor reduction for driving on rough or unsurfaced roads.*

**Speed Limits**

Posted speed limits will not be exceeded.

**Lighting**

Headlights and taillights shall be illuminated at all times while the vehicle is in motion. All new orders for fire engine apparatus will include an overhead lighting package in accordance with agency standards. Lighting packages will meet NFPA 1906 standards at the time of manufacture. Engines currently in service may be equipped with overhead lighting packages. A red, white, and amber combination is the accepted color scheme for fire.

**Emergency Light Use**

Emergency lighting will be used only during on site wildland fire operations or to mitigate serious safety hazards. Overhead lighting and other emergency lighting must meet state code requirements, and will be illuminated whenever the visibility is reduced to less than 300 feet.

- *BLM/NPS – See agency chapters or policy for specific guidance.*
- *FWS – Refer to Service policy 621 FW 1.*
- *FS – See FSM 5120, FSM 5130, and FSH 5109.16 for red lights and siren policy.*

**Fire Equipment Maintenance and Inspections**

Apparatus safety and operational inspections will be accomplished either on a post-fire or daily basis. Offices are required to document these inspections. Periodic maintenance (as required by the manufacturer) shall be performed at the intervals recommended and properly documented. All annual inspections will include a pump performance test to ensure the pump/plumbing system is operating at desired specifications (pressure and gallons per minute).

**Mobile Attack (Pump and Roll)**

Firefighters must be seated and belted within an enclosed cab or walk alongside the apparatus during mobile attack (pump and roll) operations. Riding, standing or seated on the exterior of the apparatus is prohibited. Utilization of the NFPA 1906 “on-board pump-and-roll fire-fighting position” if equipped, is not permitted.

1 **Firefighting Engines**2 **Operational Procedures**

3 All engines will be equipped, operated, and maintained within guidelines  
 4 established by the Department of Transportation (DOT) and regional/state/local  
 5 operating plans. All personnel assigned to agency fire engines will meet all  
 6 gear weight, cube, and manifest requirements specified in the *National*  
 7 *Interagency Mobilization Guide*.

- 8 • **BLM** – See procedures outlined in *BLM Manual H-9216, Fire Equipment*  
 9 *and Supply Management*.

10 **Engine Typing**

11 Engine typing and respective standards have been established by NWCG.

Engine Type	Structure		Wildland Engines				
Components	1	2	3	4	5	6	7
Tank Minimum Capacity (gal)	300	300	500	750	400	150	50
Pump Minimum Flow (gpm)	1000	500	150	50	50	50	10
@ Rated Pressure (psi)	150	150	250	100	100	100	100
Hose 2½"	1200	1000	-	-	-	-	-
1½"	500	500	1000	300	300	300	-
1"	-	-	500	300	300	300	200
Ladders per NFPA 1901	Yes	Yes	-	-	-	-	-
Master Stream 500 gpm Min.	Yes	-	-	-	-	-	-
Pump and Roll	-	-	Yes	Yes	Yes	Yes	Yes
Maximum GVWR (lbs.)	-	-	-	-	26,000	19,500	14,000
Personnel (NWCG min.)	4	3	3	2	2	2	2

- 12 • **FS** – See <http://www.fs.fed.us/fire/equipment/engine-models/models.html>  
 13 for description of Forest Service national engine standards.

14 **Fire Engine Staffing**

15 For Type 4, 5, 6, and 7 engines, minimum staffing is two individuals with a  
 16 minimum required qualification of FFT2, including an Engine Boss.

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- 1 • **FWS** – Minimum staffing for Type 6 and 7 engines (on Refuge lands) is
- 2 one **ENOP** and one **FFT2**. A minimum of one **ICT5** must be available on
- 3 the engine crew.
- 4 For Type 3 engines, minimum staffing is three individuals, including an Engine
- 5 Boss.
- 6 • **BLM** – For **BLM** engine staffing requirements see Chapter 2.
- 7 • **NPS** – For **NPS** engine staffing requirements see Chapter 3.
- 8 • **FS** – A Single Resource Boss may supervise a Type 6 or 7 engine.
- 9 **Engine Inventories**
- 10 An inventory of supplies and equipment carried on each vehicle is required to
- 11 maintain accountability and to obtain replacement items lost or damaged on
- 12 incidents. The standard inventory for engines is found in Appendix M.

### 13 Water Tenders

#### 14 Water Tender Typing

- 15 Water tender typing and respective standards have been established by NWCG.

Water Tender Type	Support			Tactical	
Requirements	S1	S2	S3	T1	T2
Tank Capacity (gal)	4000	2500	1000	2000	1000
Pump Minimum Flow (gpm)	300	200	200	250	250
@Rated Pressure (psi)	50	50	50	150	150
Max. Refill Time (mins)	30	20	15	-	-
Pump and Roll	-	-	-	Yes	Yes
Personnel (min)	1	1	1	2	2

#### 16 Water Tender Qualifications and Staffing Standards

- 17 • **Water Tender (Non-Tactical)**
- 18 ○ **Qualifications:** CDL (tank endorsement)
- 19 ○ **Staffing:** A water tender (non-tactical) may be staffed with a crew of
- 20 one driver/operator when it is used in a support role as a fire engine
- 21 refill unit or for dust abatement. These operators do not have to pass
- 22 the Work Capacity Test (WCT) but are required to take annual
- 23 refresher training.
- 24 • **Water Tender (Tactical)**
- 25 Tactical use is defined as “direct fire suppression missions such as
- 26 pumping hoselays, live reel use, running attack, and use of spray bars and
- 27 monitors to suppress fires.”
- 28 ○ **Qualifications:**
- 29 ■ **BLM/FWS** – **ENOP**, **CDL** (tank endorsement)
- 30 ■ **FS** – **FFT1**, **CDL**

- 1     ○ **Staffing:** Tactical water tenders will carry a minimum crew of two:
  - 2         ▪ *BLM/FWS – One ENOP and one FFT2.*
  - 3         ▪ *BLM – 668 Super Heavy Tactical Tenders will be staffed with*
  - 4             *one engine boss and one engine crewmember.*
  - 5         ▪ *FS – One FFT1 and one FFT1/FFT2.*

## 6 **Dozers/Tractor Plows**

### 7 **Dozer/Tractor Plow Training and Qualifications**

8 Agency personnel assigned as dozer/tractor plow operators will meet the  
9 training and experience standards for a Firefighter 2 (FFT2). This includes all  
10 safety and annual refresher training. While on fire assignments, all operators  
11 and support crew will meet PPE requirements including the use of aramid fiber  
12 clothing, hard hats, fire shelters, boots, etc.

### 13 **Dozer/Tractor Plow Physical Fitness Standards**

14 All employee dozer/tractor plow operators will meet requirements stated in the  
15 *Federal Wildland Fire Qualifications Supplement.*

### 16 **Dozer/Tractor Plow Operational Procedures**

- 17 • Agency owned and operated dozer/tractor plows will be equipped with  
18 programmable two-way radios, configured to allow the operator to monitor  
19 radio traffic.
- 20 • Agency and contract dozer/tractor plows will have agency supplied  
21 supervision when assigned to any suppression operations.
- 22 • Contract dozers must be provided with radio communications, either  
23 through a qualified Heavy Equipment Boss (HEQB) or an agency-supplied  
24 radio. Contract dozer/tractor plows will meet the specifications identified  
25 in their agreement/contract.
- 26 • Operators of dozer/tractor plows and transport equipment will meet DOT  
27 certifications and requirements regarding the use and movement of heavy  
28 equipment, including driving limitations, CDL requirements, and pilot car  
29 use.

## 30 **All Terrain Vehicles (ATV)/Utility Terrain Vehicles (UTV)**

31 The operation of ATV/UTVs can be high risk. The use of ATV/UTVs should  
32 be evaluated to ensure that use is essential to accomplish the mission, rather  
33 than for convenience.

- 34 • *BLM – No ATVs will be used for industrial use OHV operations.*

35 Because of the high risk nature, agencies have developed specific operational  
36 policy (refer to current agency policy). ATV/UTV operators will meet the  
37 training and certification requirements of their agency; employees certified by  
38 their agency will be considered qualified ATV/UTV operators regardless of

1 incident jurisdiction. Common policy requirements for wildland fire operations  
2 are highlighted below:

- 3 • A JHA/RA must be completed and approved by the supervisor prior to  
4 vehicle operation.
- 5 • All personnel authorized to operate an ATV/UTV must first complete  
6 agency specific or manufacturer-provided training in safe operating  
7 procedures and appropriate PPE.
- 8 • Re-evaluation/Re-certification – Operators shall be re-evaluated every  
9 three years. Infrequent users (less than 16 hours of riding a year) shall have  
10 a check ride prior to scheduled use of an ATV/UTV.
- 11 • Specific authorization for ATV/UTV use is required – All ATV/UTV  
12 operations must hold a valid Motor Vehicle Operator's Identification Card,  
13 OF-346 or agency equivalent.
  - 14 ○ *BLM/NPS/FWS – Upon completion of agency-specific ATV/UTV*  
15 *training and operator certification requirements, All-Terrain Vehicle*  
16 *Operator (ATVO) will be placed on the employee's Incident*  
17 *Qualification and Certification (IQCS) Card (Red Card). IQCS*  
18 *Certifying Officials are responsible for verifying that ATV/UTV*  
19 *operator qualifications are current, and that the ATVO qualification is*  
20 *removed from the Red Card if agency-specific training, certification,*  
21 *or currency requirements lapse.*
  - 22 ○ *NPS – All Off-Highway Vehicle (OHV) operators (including*  
23 *ATV/UTV) must hold a valid state Motor Vehicle Operator's Permit.*  
24 *Operating restrictions identified on the operator's permit must be*  
25 *adhered to while operating an OHV (e.g., use of corrective lenses,*  
26 *etc.). NPS ATV operators must be qualified at either the Basic or*  
27 *Advanced Level as described in RM-50B depending on the hazard*  
28 *potential of the operation. All ATV operators shall be provided*  
29 *refresher training each year in accordance with a JHA and*  
30 *reevaluated by an ASI Certified Trainer every 3 years. The*  
31 *reevaluation shall be documented. RM-50B, Appendix B (ATV*  
32 *Operator Accountability/Certification Tracking Record) may be used*  
33 *to document the reevaluation. Further information on ATV/UTV use is*  
34 *found in RM-50B.*
- 35 • ATVs can only have a single rider—passengers are prohibited even if  
36 ATV is designed for two riders.
- 37 • UTVs passengers are limited to the number of seats installed by  
38 manufacturer. The operator and passenger(s) must use seatbelts while the  
39 vehicle is in motion.
- 40 • Operators must use required PPE while loading/unloading ATV/UTV.
- 41 • Cargo loads shall be loaded and secured as to not affect the vehicle's  
42 center of gravity, and shall not exceed manufacturer's recommendations  
43 for maximum carrying capacity; and
- 44 • When transporting external fuel containers with a UTV/ATV, a 5 lb. class  
45 BC fire extinguisher must be secured to the UTV/ATV.

1 **Required PPE**2 **ATV Head Protection for Wildland Fire Operations**

- 3 • ATV helmets must be worn at all times during ATV operations (on and off
- 4 the fireline); and
- 5 • ATV helmets must meet Snell Memorial Foundation standards, or DOT
- 6 certification.
- 7 ○ A ¾ face model meeting Snell Memorial Foundation standards
- 8 certification is acceptable for use.
- 9 ○ Use of half “shorty” helmets requires a JHA/RA for fireline use and
- 10 must include justification for its use. Refer to MTDC Tech Tip
- 11 publication, *A Helmet for ATV Operators with Fireline Duties* (0651-
- 12 2350-MTDC).

13 **UTV Head Protection for Wildland Fire Operations:**

- 14 • Helmets must meet DOT, ANSI Z90.1; or Snell Memorial Foundation
- 15 standards unless:
- 16 ○ UTV is used for low speeds and smooth travel surfaces, administrative
- 17 use (e.g., campgrounds, incident base camps) UTV operators are not
- 18 required to wear hardhats or helmets; or
- 19 ○ UTV is equipped with approved Rollover Protection System (ROPS),
- 20 and:
- 21 ■ *BLM – A comprehensive and properly prepared RA of the*
- 22 *specific conditions demonstrates no more than a medium residual*
- 23 *risk level, then a hard hat meeting NFPA 1977 or ANSI Z 89.1*
- 24 *standards may be worn with chin straps secured in place under*
- 25 *chin.*
- 26 ■ *NPS – Approved helmets are required for UTV operations that*
- 27 *are rated moderate (amber) or high (red) using the “ORV Risk*
- 28 *Assessment Tool” included in the NPS Off-Highway Vehicle*
- 29 *Policy.*
- 30 ■ *FWS – Per 243 FW 6.6 B.1, a hardhat meeting NFPA 1977 or*
- 31 *ANSI Z 89.1 standards may be worn with chin straps secured in*
- 32 *place unless the risk assessment for the operation dictates*
- 33 *wearing a securely fastened motorcycle helmet.*
- 34 ■ *FS – UTV Helmet (for fire use) – Helmets must have Snell SA*
- 35 *certification. Wearing hardhats while driving or riding on a UTV*
- 36 *is not allowed. Forest Service policy provides no exception to the*
- 37 *helmet requirement for low speeds, smooth travel surfaces, or*
- 38 *administrative use (FSH 6709.11, Chapter 10).*

39 **Eye protection (goggles, face shield, or safety glasses) based upon JHA/RA:**

- 40 • Eye protection is not required for a UTV equipped with an original
- 41 manufacturer windshield that protects the face from branches, flying
- 42 debris, etc., unless otherwise required by an associated industrial use
- 43 activity or JHA/RA.

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- 1 If operating ATV/UTV on the fireline, the following are required:
- 2 • Leather or leather/flame resistant combination gloves. Flight gloves are not  
3 approved for fireline use.
- 4 • National Fire Protection Association (NFPA) 1977 compliant long-sleeved  
5 flame resistant shirt.
- 6 • NFPA 1977 compliant flame resistant trousers.
- 7 • Wildland fire boots.
- 8 • Appropriate head protection as described above.
- 9 ○ *FS – Shirt, trousers, and gloves used by USFS personnel must meet*  
10 *Forest Service specification 5100-91 (shirt), 5100-92 (trousers),*  
11 *6170-5 (gloves), or be NFPA 1977 compliant.*
- 12 ATV/UTV operator shall carry a personal communication device (e.g., two-  
13 way radio, cellular phone, or satellite phone).
- 14 All other ATV/UTV specific guidance is found in the respective agency's  
15 policy:
- 16 • *BLM – Refer to BLM Manual 1112-1, Chapter 17 Off-Highway Vehicles*  
17 *at <http://web.blm.gov/internal/wo-500/directives/dir-hdbk/h1112-1.pdf>.*  
18 *Refer to Instruction Memorandum No. WO 2015-136, Transporting Utility*  
19 *Terrain Vehicles (UTVs) in Pick-up Trucks.*
- 20 • *NPS – Refer to Reference Manual 50B Occupational Health and Safety,*  
21 *Section 6.1 Off-Highway Vehicle Safety at*  
22 *<http://www.nps.gov/policy/RM50Bdoclist.htm>.*

#### 23 **Vehicle Cleaning/Noxious Weed Prevention**

- 24 Refer to Chapter 11 for guidance on minimizing potential transmission of  
25 invasive species.

#### 26 **Incident Remote Automated Weather Stations**

- 27 Incident Remote Automated Weather Stations (IRAWS – NFES 5869) are  
28 readily deployable, portable weather stations that may be utilized in unprepared  
29 locations to monitor local weather conditions. IRAWS are intended for use on  
30 or near the fireline or at other all-risk incidents, and are installed and operated  
31 as desired by Fire Behavior Analysts (FBAN) and/or Incident Meteorologists  
32 (IMET) to record and distribute real time weather data.
- 33 National resource IRAWS systems are cached at the National Interagency Fire  
34 Center (NIFC) and may be ordered through standard equipment resource  
35 ordering systems. Following release from an incident, these stations must be  
36 returned to the Remote Sensing/Fire Weather Support Unit (RSFWSU) at  
37 NIFC for maintenance, recalibration, and redeployment.

**1 Aerial Ignition Devices**

2 Information on types of aerial ignition devices, operational guidelines, and  
3 personnel qualifications may be found in the *Interagency Aerial Ignition Guide*  
4 (PMS 501) available at <http://www.nwcg.gov/publications/501>.

**5 Ground Ignition Devices and Transporting/Dispensing Fuel**

6 For ground ignition devices, follow the *Interagency Ground Ignition Guide*  
7 (PMS 443) for operational guidelines, personnel qualifications, and equipment  
8 selection. <http://www.nwcg.gov/publications/443>

9 For transporting and dispensing fuel, follow the *Interagency Transportation*  
10 *Guide for Gasoline, Mixed Gas, Drip-Torch Fuel, and Diesel* (PMS 442) found  
11 at <http://www.nwcg.gov/publications/442>.

- 12 • **BLM** – A 10 lb. class BC fire extinguisher is required for UTVs equipped  
13 with a ground ignition device.
- 14 • **NPS** – Follow the Forest Service standard for military style jerrican (UN  
15 3A1) (Page 8, PMS 442).
- 16 • **FS** – Direction is found in FSH 6709.11.

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## Chapter 15 Communications

### 3 Policy

4 Agency specific policies for radio communications may be found in:

- 5 ○ *Department of Interior, Department Manual, Radio Communications Handbook (377 DM).*
- 6 ○ *USDA Forest Service Handbook (FSH) 6609.14 Chapters 10-40 and*
- 7 *Forest Service Manual (FSM) 6600 Systems Management Chapter*
- 8 *6640 – Telecommunications.*

### 10 Dispatch Recording Devices

11 Recording of phone calls without all party's prior knowledge and consent is not  
12 permitted. Recording of radio traffic is appropriate.

- 13 • *BLM – Radio recording devices will be used by BLM dispatch offices or*
- 14 *any interagency office dispatching BLM resources.*

### 15 Cellular/Satellite Phone Communications

16 Cellular/satellite telephones will not be used to communicate tactical or  
17 operational traffic unless no other means are available. Cellular/satellite  
18 telephones will not be used for flight following in lieu of normal flight following  
19 procedures. Telephone communications may be used for logistical purposes.

20 Refer to Chapter 7 for policy regarding use of mobile devices while operating a  
21 vehicle.

### 22 Radio Communications

23 Radio communications provide for the flow of tactical information needed for  
24 the command/control and safety of personnel and resources.

### 25 Radio Contracts

26 Radios used for fire and aviation activities must be approved by the National  
27 Interagency Incident Communication Division (NIICD). Information on  
28 contracts, software, hardware requirements and approved radios is available at  
29 <http://www.nifc.gov/NIICD/documents.html>, or contact your agency  
30 Telecommunications Department or the National Interagency Fire Center  
31 Communications Duty Officer (NIFC CDO) at (208) 387-5644.

- 32 • *BLM – For information on BLM contracts, software, and hardware*
- 33 *requirements and approved radios, contact the Branch of Radio Operations*
- 34 *(FA-350) at (208) 387-5830.*

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**1 Radio Frequency Management**

2 FM frequencies are authorized and assigned by the designated Washington  
3 Office frequency manager and managed by the state and local Communications  
4 Officers. Frequencies shall not be used without express permission from the  
5 local, state, regional, or national level designated frequency management  
6 personnel.

**7 Daily Operational Frequency Management**

8 Frequency assignments for normal daily and initial attack operations are made  
9 on a permanent basis and are requested through the normal Radio Frequency  
10 Authorization process from the local, state, regional or national level designated  
11 frequency management personnel.

12 Air operations initial attack frequencies, both AM and FM, will be assigned by  
13 the NIFC CDO. These assignments will be on an interagency basis and  
14 coordinated with the Geographic Area Coordination Centers (GACCs).

**15 Mutual Aid Frequency Management**

16 Mutual aid frequency sharing agreements can be made at the local level.  
17 However, mutual-aid frequency sharing agreements are only valid in the specific  
18 location where they originated. These agreements do not authorize the use of a  
19 shared frequency other than in the specified local area.

20 NIFC national fire frequencies are not to be used for these agreements. The only  
21 exception may occur when an agency holds a National Telecommunications  
22 Information Agency (NTIA) Radio Frequency Authorization (RFA) for a  
23 frequency that is included in the NIFC Channeling Plan. If this occurs,  
24 notification and coordination with the NIFC CDO is requested.

**25 Incident Frequency Management**

26 National level coordination and assignments of incident frequencies is the  
27 responsibility of the National Interagency Incident Communications Division  
28 (NIICD) and is managed by the NIFC CDO.

29 When communications requirements exceed normal operations, the NIFC CDO  
30 may request that GACCs assign a Communication Coordinator (COMC) to  
31 facilitate geographic area frequency management. Additional information may  
32 be found in the National Interagency Mobilization Guide.

- 33 • Frequencies for Type 1 and 2 incidents are assigned by the NIFC CDO and  
34 are managed by a qualified Communications Unit Leader (COML). The  
35 COML will request, assign, and report all frequencies used on the incident  
36 to the NIFC CDO/COMC. This will include the request and assignment of

1 all aircraft frequencies. Frequency use will be documented on the ICS-205  
2 Incident Radio Communications Plan and on ICS-220 Air Operation  
3 Summary forms. These completed forms will be made available to incident  
4 personnel.  
5 • Type 3 incidents, or other incidents that do not have an assigned COML,  
6 will coordinate and request all frequency and communication equipment  
7 needs through the COMC and/or the NIFC CDO.

8 If additional frequencies are required, the COML will order them through the  
9 established ordering process.

10 Additional frequencies for any operation may be available on a temporary basis,  
11 and may be requested by the NIFC CDO from the Washington Office Spectrum  
12 managers when:

- 13 • The NIICD national frequencies are all committed within a specific  
14 geographic area;
- 15 • New incidents within a specific complex create a need for additional  
16 frequencies;
- 17 • The fire danger rating is extreme and the potential for additional new  
18 incidents is high; and/or
- 19 • When there is frequency congestion due to significant numbers of incidents  
20 in close proximity.

#### 21 **Aviation Operations Frequency Management**

- 22 • Air-to-Air initial attack – AM frequencies are assigned yearly to the  
23 GACCs by the NIFC CDO in coordination with the Federal Aviation  
24 Administration (FAA). Once assigned, management of those frequencies is  
25 the responsibility of the GACC and may be allocated to zones. Frequencies  
26 allocated to zones for initial attack are not to be dedicated for project fire  
27 use. If additional frequencies are required, they must be requested from and  
28 assigned by the NIFC CDO.
- 29 • Air-to-Ground – FM frequencies will be assigned and coordinated by the  
30 NIFC CDO and agency frequency managers.

31 Both AM and FM aviation frequency assignments will be used on an  
32 interagency basis and a master record of these assignments is maintained by the  
33 NIFC CDO. Updated frequency information is coordinated annually with the  
34 GACCs.

#### 35 **Pre-assigned National Frequencies**

##### 36 **National Air Guard Frequency (168.6250 MHz)**

37 A National Interagency Air Guard frequency for aircraft will be used for  
38 emergency aviation communications. Continuous monitoring of this frequency  
39 in narrowband mode is mandatory by agency dispatch centers. Transmission on

1 this frequency must include the Continuous Tone Coded Squelch System  
2 (CTCSS) tone of 110.9 Hz.

3 This frequency, 168.6250 MHz is restricted to the following use:

- 4 • Air-to-air emergency contact and coordination;
- 5 • Ground-to-air emergency contact; and
- 6 • Initial call, recall, and re-direction of aircraft when no other contact  
7 frequency is available.

8 **National Flight Following Frequency (168.6500 MHz)**

9 The National Flight Following Frequency is used to monitor interagency and  
10 contract aircraft. All aircraft on point-to-point or mission flights should  
11 establish/terminate flight following, and confirm Automated Flight Following  
12 (AFF) on the National Flight Following frequency.

13 All dispatch centers/offices will monitor the national flight following frequency  
14 at all times. A CTCSS tone of 110.9 must be placed on the transmitter and  
15 receiver of the National Flight Following frequency.

16 The National Flight Following frequency is to be used for flight following,  
17 dispatch, or redirection of aircraft. No other use is authorized.

18 **National Interagency Air Tactics Frequencies (166.6750 MHz, 167.9500  
19 MHz, 169.1500 MHz, 169.2000 MHz, 170.0000 MHz)**

20 These frequencies are used to support air-to-air or ground-to-air  
21 communications on incidents west of the 95th meridian. These frequencies shall  
22 be used for air-to-air and ground-to-air communications only. They are not for  
23 use as ground tactical operational frequencies.

24 Transmitter power output of radios installed in aircraft utilizing these  
25 frequencies shall be limited to 10 watts. Use of these frequencies in base stations  
26 and repeaters is prohibited.

27 These frequencies will be assigned by the NIFC CDO or in coordination with  
28 the local unit if a NTIA-RFA is in effect.

29 **National Interagency Airtanker Base Frequency (123.9750 MHz)**

30 This frequency is assigned by the FAA to all airtanker bases (unless otherwise  
31 notified) for exclusive use. Use of this frequency is restricted to a radius of 40  
32 nautical miles and 10,000 feet MSL from the coordinates of the airtanker base.  
33 No other use is authorized.

34 **Smokejumper and Rappel/RADS Air-to-Ground Frequency (168.550 MHz)**

35 BLM and USFS Smokejumpers have been granted exclusive use of primary  
36 National air-to-ground tactical frequency 168.550.

1 This frequency is also granted for use, with a separate transmit and receive tone,  
2 as a secondary/backup frequency for the BLM and USFS Rappel/Rope Assisted  
3 Delivery System (RADS) aerial delivery operations if the local air to ground  
4 tactical frequency is being used for initial attack operations and use of that local  
5 frequency could cause interference issues.

6 Use of this frequency for other than the delivery of aerial firefighters is  
7 prohibited. This frequency must be toned (CTCSS, transmit and receive) for  
8 Smokejumper and Rappel/RADS crews to ensure that interference issues are  
9 avoided. Smokejumpers will use tone 123.0 and Rappel/RADS crews will use  
10 tone 110.9.

11 **Government-wide Area Common User Frequencies (163.1000 MHz,  
12 168.3500 MHz)**

13 These frequencies are used on a non-interference basis and are not exclusive to  
14 any user. These frequencies are not to be used for air-to-ground operations and  
15 are prohibited by DOI and USDA from use as a frequency during operations  
16 involving the protection of life and property.

17 • **NOTE:** When traveling between incidents, be sure to monitor for incident  
18 radio traffic in the area before using these frequencies.

19 **National Interagency Fire Tactical Frequencies (168.0500 MHz, 168.200  
20 MHz, 168.6000 MHz, 168.2500 MHz, 166.7250 MHz, 166.7750 MHz)**

21 These frequencies are used to support ground tactical operations (line of sight)  
22 on incidents.

23 They are not authorized for:

- 24 • Air-to-air communications;
- 25 • Air-to-ground communications;
- 26 • Mobile radios with more than 5 watts output power;
- 27 • Base stations; or
- 28 • Repeater frequencies.

29 Permission to use these frequencies requires prior approval from the NIFC CDO  
30 (or COMC when mobilized), or when there is an approved radio frequency  
31 authorization. Maximum power output is 5 watts.

32 **Incident Radio Support**

33 All National Incident Radio Support Cache (NIRSC) communications  
34 equipment will be returned to NIRSC at NIFC immediately after the incident is  
35 turned over to the jurisdictional agency.

36 No cache communications equipment shall be moved from one incident to  
37 another without being first returned to NIRSC for refurbishment. Unused and

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1 red-sealed equipment may be moved, but only upon approval of the NIFC CDO  
2 or COMC.

3 **Military Communications on an Incident**

4 Military units assigned to an incident are assigned radios approved for use on  
5 incidents. Each battalion is typically assigned 80 handheld radios. Sixteen of  
6 these radios are used by military crew liaisons. Intercrew communications  
7 within a military unit is provided by the military on their radios using their  
8 frequencies. All frequency assignments at the incident will be made by the  
9 COML in accordance with the ICS-205.

10 Some military units have aviation VHF-FM radios compatible with civilian  
11 systems. Other units must be provided VHF-FM radios prior to dispatch to an  
12 incident. Wiring harnesses and radios will be resource ordered by the incident.  
13 The resource order will include a request for qualified personnel from NIICD to  
14 perform the installation of the equipment. Equipment will not be sent without  
15 qualified personnel to install it.

## Chapter 16 Aviation Operations and Resources

### Purpose and Scope

- Aviation resources are one of a number of tools available to accomplish fire related land management objectives.
- Aviation use must be prioritized based on management objectives and probability of success.
- The effect of aviation resources on a fire is directly proportional to the speed at which the resource(s) can initially engage the fire, the effective capacity of the aircraft, and the deployment of ground resources.
- These factors are magnified by flexibility in prioritization, mobility, positioning, and utilization of the versatility of many types of aircraft.
- Risk management is a necessary requirement for the use of any aviation resource. The risk management process must include risk to ground resources, and the risk of not performing the mission, as well as the risk to the aircrew.

### Organizational Responsibilities

#### National Office – Department of Interior (DOI)

##### *Office of Aviation Services (OAS)*

- The Office of Aviation Services (OAS) is responsible for the coordination of aviation policy development and maintenance management within the agencies of the Department of the Interior (DOI). The OAS has no operational responsibility. The OAS provides aviation safety program oversight, accident investigation, and inspection/approval of aircraft and pilots for DOI agencies.

##### *Bureau of Land Management (BLM)*

- National Aviation Office (NAO) – NAO develops BLM policy, procedures, and standards. It also maintains functional oversight, and facilitates interagency coordination for all aviation activities. The principal goals are safety and cost-effectiveness. The NAO supports BLM aviation activities and missions. This includes fire suppression, through strategic program guidance, managing aviation programs of national scope, coordination with OAS, and interagency partners. The Fire and Aviation Directorate has the responsibility and authority, after consultation with State Fire Management Officers, for funding and acquisition of all fire aircraft, prioritizing the allocation of BLM aircraft on a Bureau wide basis, and approving State Office requests to acquire supplemental aircraft resources. Refer to *BLM National Aviation Plan and Manual 9400* for aviation policy and guides. Refer to 112 DM 12 for a list of responsibilities.

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1 ***National Park Service***

2 The Branch of Aviation develops NPS policy, procedures, and standards for all  
3 fire and non-fire aviation activities. This includes providing guidance on fire  
4 suppression, as well as standardizing aviation programs at the national level,  
5 coordinating with OAS and interagency partners. The Branch of Aviation also  
6 has responsibility for operational execution of the aviation program. The Branch  
7 ensures personnel receive aviation training, provides internal training for fleet  
8 pilots, has responsibility for quality assurance and quality control of park  
9 aviation programs and provides fiscal analysis to determine numbers and types  
10 of aircraft for the bureau.

11 **National Office – U.S. Department of Agriculture**

12 ***Forest Service (FS)***

13 The FS has responsibility for all aspects of its aviation program, including  
14 aviation policy and budget development, aircraft acquisition, pilot  
15 standardization, and maintenance management. In addition, the FS has  
16 operational responsibility for functional oversight of aviation assets and  
17 facilities, accident investigation, and aircraft and pilot inspection.

18 The Assistant Director (AD), Aviation, is responsible to the Director of Fire and  
19 Aviation Management for the management and supervision of the National  
20 Headquarters Office in Washington DC, and the detached Aviation Unit in  
21 Boise. The AD, Aviation provides leadership, support and coordination for  
22 national and regional aviation programs and operations. Refer to FSM 5704.22  
23 for list of responsibilities.

24 The Branch Chief, Aviation Operations reports to the AD, Aviation, and is  
25 responsible for national aviation operational management and oversight.

26 The Branch Chief, Pilot Standardization reports to the AD, Aviation, and is  
27 responsible for pilot and aircrew standardization and approval of agency and  
28 contract pilots and aircrew.

29 The Branch Chief, Airworthiness reports to the AD, Aviation, and is responsible  
30 for national aircraft airworthiness and maintenance program management and  
31 oversight.

32 The Branch Chief, Aviation Business Operations reports to the AD, Aviation  
33 and is responsible for policy maintenance and development, budget  
34 development, and planning.

35 The Aviation Strategic Planner reports to the AD, Aviation and is responsible  
36 for strategic planning and reporting.

- 1 The Branch Chief, Aviation Safety Management Systems reports to the AD,  
2 Risk Management and Training, and is responsible for the national aviation  
3 safety and risk management program and oversight.

4 **State/Regional Office**

- 5 • **BLM** – *State FMOs are responsible for providing oversight for aircraft*  
6 *hosted in their state. State FMOs have the authority and responsibility to*  
7 *approve, with National Office concurrence, acquisition of supplemental*  
8 *aircraft resources within their state. State FMOs have the authority to*  
9 *prioritize the allocation, pre-positioning and movement of all aircraft*  
10 *assigned to the BLM within their state. State Offices will coordinate with*  
11 *the National Office on movement of their aircraft outside of their State. A*  
12 *State Aviation Manager (SAM) is located in each state office. SAMs are*  
13 *delegated as the Contracting Officers Representative (COR) for all*  
14 *exclusive use aircraft hosted by their state. SAMs implement aviation*  
15 *program objectives and directives to support the agency mission and state*  
16 *objectives. A state aviation plan is required to outline the state aviation*  
17 *program objectives and to identify state-specific policy and procedures.*  
18 • **NPS** – *A Regional Aviation Manager (RAM) is designated for each Region.*  
19 *RAMs oversee the tactical execution of their region's aviation programs,*  
20 *provide technical expertise and aviation safety oversight of the parks in*  
21 *their geographic area. RAMs observe regional aviation activities and*  
22 *provide liaison with the national Branch of Aviation and other agencies as*  
23 *appropriate. A Regional aviation operations and management plan is*  
24 *required to outline the Region's aviation program objectives and to identify*  
25 *Region-specific policy and procedures.*  
26 • **FWS** – *A Regional Aviation Manager (RAM) is designated for each Region.*  
27 *RAMs implement aviation program objectives and directives to support the*  
28 *agency mission and Region objectives. Several Regions have additional*  
29 *support staff, and/or pilots assigned to support aircraft operations and to*  
30 *provide technical expertise. A Regional aviation operations and*  
31 *management plan is required to outline the Region's aviation program*  
32 *objectives and to identify Region-specific policy and procedures.*  
33 • **FS** – *Regional Aviation Officers (RAOs) are responsible for directing and*  
34 *managing Regional aviation programs in accordance with the National and*  
35 *Regional Aviation Management Plans, and applicable agency policy*  
36 *direction. (Refer to FSM 5700 and FSH 5709.16 for list of responsibilities).*  
37 *RAOs report to Director of Fire and Aviation for their specific Region.*  
38 *Regional Aviation Safety Managers (RASMs) are responsible for aviation*  
39 *safety in their respective Regions, and work closely with the RAO to ensure*  
40 *aviation safety is an organizational priority (refer to FSM 5700 and FSH*  
41 *5709.16 for list of responsibilities). Most Regions have additional aviation*  
42 *technical specialists and pilots who help manage and oversee the Regional*  
43 *aviation programs. Most Regions also have Aviation Maintenance*

1 *Inspectors, Fixed-wing Program Managers, Helicopter Program Managers,*  
2 *Helicopter Operations Specialists, Inspector Pilots, etc.*

### 3 **Local Office**

4 Some areas have interagency aviation programs that utilize an Aviation Manager  
5 for multiple units. Duties are similar as other local level managers.

- 6 • *BLM – Unit Aviation Managers (UAMs) serve as the focal point for the*  
7 *Unit Aviation Program by providing technical expertise and management of*  
8 *aviation resources to support Field Office/District programs. Field/District*  
9 *Offices are responsible for hosting, supporting, providing daily*  
10 *management, and dispatching all aircraft assigned to their unit.*  
11 *Field/District Offices have the authority to request additional resources; to*  
12 *establish priorities, and make assignments for all aircraft assigned to the*  
13 *BLM within their unit or zone.*
- 14 • *NPS – Unit or Park Aviation Managers have the responsibility to provide*  
15 *aviation expertise and management of aviation resources at each park unit.*  
16 *Organizational responsibility refer to DO-60, RM-60.*
- 17 • *FS – Unit Aviation Officers (UAOs)/Forest Aviation Officers (FAOs) have*  
18 *the responsibility for aviation activities at the local level, including aviation*  
19 *mission planning, risk management and safety, supervision, and evaluation.*  
20 *UAOs/FAOs assist Line Officers with risk assessment/management and cost*  
21 *analysis. Refer to FSM 5700 Zero Code for a list of responsibilities.*

### 22 **Aviation Information Resources**

23 Aviation reference guides and aids for agency aviation management are listed  
24 for policy, guidance, and specific procedural requirements.

- 25 • *BLM – 9400 Manual Appendix 1, National Aviation Plan (NAP) and*  
26 *applicable aviation guides as referenced in the NAP.*
- 27 • *NPS – RM-60 Aviation Management Reference Manual, IHOG, and IASG.*
- 28 • *FWS – Service Manual 330-339, Aviation Management and IHOG.*
- 29 • *FS – FSM 5700, FSH 5709.16 and applicable aviation guides when*  
30 *approved by the agency and referenced in policy.*

31 Safety alerts, operational alerts, instruction memoranda, information bulletins,  
32 incident reports, and other guidance or information are issued as needed.

33 An up-to-date library with aviation policy and procedural references will be  
34 maintained at all permanent aviation bases, dispatch, and aviation management  
35 offices.

### 36 **Aviation Safety**

37 The FS and the BLM have adopted Safety Management Systems (SMS) as the  
38 foundation for the aviation safety program. The four pillars of SMS are Safety  
39 Policy, Safety Risk Management, Safety Assurance, and Safety Promotion. SMS

- 1 is the standard for aviation safety set by the International Civil Aviation
- 2 Organization (ICAO) and the Federal Aviation Administration (FAA).

3 SMS focuses on:

- 4 • Emphasis on proactive risk management;
- 5 • Promotes a “Just” culture;
- 6 • Addresses systemic safety concerns;
- 7 • Holds the organization accountable;
- 8 • Identifies “What” so we can manage the manageable; and
- 9 • Communicates the “Why” so the culture can learn from mistakes.

10 The intent of SMS is to improve the aviation culture by increasing hazard  
11 identification, reduce risk-taking behavior, learn from mistakes, and correct  
12 procedures before a mishap occurs rather than after the accident. More  
13 information on SMS is available at the Wildland Fire Lessons Learned Center  
14 under the Lessons Learned link at [www.wildfirelessons.net](http://www.wildfirelessons.net). Additionally, the  
15 current approved US Forest Service Aviation SMS Guide is available at  
16 [www.fs.fed.us/fire/av\\_safety/](http://www.fs.fed.us/fire/av_safety/).

### 17 Risk Assessment and Risk Management

18 The use of risk management will help to ensure a safe and successful operation.  
19 Risk is the probability that an event will occur. Assessing risk identifies the  
20 hazard, the associated risk, and places the hazard in relationship to the mission.  
21 A decision to conduct a mission requires weighing the risk against the benefit of  
22 the mission and deciding whether the risks are acceptable.

23 Aviation missions always have some degree of risk. The four sources of hazards  
24 are methods, medium, man, and machine. Managing risk is a 5-step process:

- 25 1. Identify hazards associated with all specified and implied tasks for the  
26 mission.
- 27 2. Assess hazards to determine potential of occurrence and severity of  
28 consequences.
- 29 3. Develop controls to mitigate or remove risk, and make decisions based on  
30 accepting the least risk for the best benefit.
- 31 4. Implement controls – (1) education controls, (2) physical controls, and (3)  
32 avoidance controls.
- 33 5. Supervise and Evaluate – enforce standards and continuously re-evaluate  
34 their effectiveness in reducing or removing risk. Ensure that controls are  
35 communicated, implemented, and enforced.
- 36 • *FS – FSM 5700. Employees shall use an operational risk management*  
37 *process to evaluate the risk and hazards prior to every flight.*

**1 How to Properly Refuse Risk (Aviation)**

2 Every individual (government and contracted employees) has the right and  
3 obligation to report safety problems affecting his or her safety and has the right  
4 to contribute ideas to correct the hazard. In return, supervisors are expected to  
5 give these concerns and ideas serious consideration. When an individual feels an  
6 assignment is unsafe, he or she also has the obligation to identify, to the degree  
7 possible, safe alternatives for completing that assignment. Turning down an  
8 assignment is one possible outcome of managing risk.

9 A "turn down" is a situation where an individual has determined he or she  
10 cannot undertake an assignment as given and is unable to negotiate an  
11 alternative solution. The turn down of an assignment must be based on  
12 assessment of risks and the ability of the individual or organization to control or  
13 mitigate those risks. Individuals may turn down an assignment because of safety  
14 reasons when:

- 15 • There is a violation of regulated safe aviation practices;
- 16 • Environmental conditions make the work unsafe; or
- 17 • They lack the necessary qualifications or experience.

18 Individuals will directly inform their supervisor that they are turning down the  
19 assignment as given. The most appropriate means of documented turn down  
20 criteria is using the Aviation Watch Out Situations (*IRPG*).

21 Supervisors will notify the Air Operations Branch Director (AOBD) or unit  
22 aviation leadership immediately upon being informed of a turn down. If there is  
23 no AOBD, notification shall go to the appropriate Section Chief, the Incident  
24 Commander or local fire and aviation staff. Proper handling of turn downs  
25 provides accountability for decisions and initiates communication of safety  
26 concerns within the incident organization.

27 If the assignment has been turned down previously and the supervisor asks  
28 another resource to perform the assignment, he or she is responsible to inform  
29 the new resource that the assignment had been turned down and the reasons  
30 why. Furthermore, personnel need to realize that a "turn down" does not stop the  
31 completion of the assigned operation. The "turn down" protocol is an integral  
32 element that improves the effective management of risk, for it provides timely  
33 identification of hazards within the chain of command, raises risk awareness for  
34 both leaders and subordinates, and promotes accountability.

35 If an unresolved safety hazard exists the individual needs to communicate the  
36 issue/event/concern immediately to his or her supervisor and document as  
37 appropriate.

**1 Aviation Safety Support****2 Aviation Safety Assistance Team (ASAT)**

3 During high levels of aviation activity, it is advisable to request an Aviation  
4 Safety Assistance Team (ASAT). An ASAT's purpose is to enhance risk  
5 management, efficiency, effectiveness, and provide technical assistance while  
6 reviewing aviation operations. If an ASAT cannot be filled internally, the  
7 request may be placed with NICC through established ordering channels using  
8 individual overhead requests. An ASAT should operate under a Delegation of  
9 Authority from the appropriate State/Regional Aviation Manager(s) or Multi  
10 Agency Coordinating Group. Formal written reports shall be provided to  
11 appropriate manager(s) as outlined at the in-brief. A team should be developed  
12 to fit the need of the requesting unit and may consist of the following:

- 13 • Aviation Safety Manager;
- 14 • Operations Specialist (helicopter and/or fixed wing);
- 15 • Pilot Inspector;
- 16 • Maintenance Inspector (optional);
- 17 • Avionics Inspector (optional); and
- 18 • Aircraft Dispatcher (optional).

**19 Aviation Safety Briefing**

20 Every passenger must receive a briefing prior to each flight. The briefing is the  
21 responsibility of the Pilot in Command (PIC) but may be conducted by the pilot,  
22 flight manager, helicopter manager, fixed-wing base manager, or an individual  
23 with the required training to conduct an aviation safety briefing. The pilot  
24 should also receive a mission briefing from the government aircraft manager.  
25 Refer to the *IRPG* and *IHOG* Chapter 10.

**26 Aviation Hazard**

27 An aviation hazard is any condition, act, or circumstance that compromises the  
28 safety of personnel engaged in aviation operations. Pilots, flight crew personnel,  
29 aviation managers, incident air operations personnel, and passengers are  
30 responsible for hazard identification and mitigation. Aviation hazards may  
31 include but are not limited to the following:

- 32 • Deviations from policy, procedures, regulations, and instructions;
- 33 • Improper hazardous materials handling and/or transport;
- 34 • Airspace conflicts/flight following deviation;
- 35 • Deviation from planned operations;
- 36 • Failure to utilize PPE or Aviation Life Support Equipment (ALSE);
- 37 • Failure to meet qualification standards or training requirement;
- 38 • Extreme environmental conditions;
- 39 • Improper ground operations;
- 40 • Improper pilot procedures;
- 41 • Fuel contamination; and
- 42 • Unsafe actions by pilot, air crew, passengers, or support personnel.

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1 Aviation hazards also exist in the form of wires, low-flying aircraft, and  
2 obstacles protruding beyond normal surface features. Each office will post,  
3 maintain, and annually update a "Known Aerial Hazard Map" for the local  
4 geographic area where aircraft are operated, regardless of agency jurisdiction.  
5 This map will be posted and used to brief flight crews. Unit Aviation Managers  
6 are responsible for ensuring the development and updating of Known Aerial  
7 Hazard Maps (IHOG).

#### 8 **Aerial Applications of Wildland Fire Chemical Safety**

9 Chapter 12 contains information concerning the aerial application of wildland  
10 fire chemicals.

#### 11 **SAFECOM**

12 The DOI and the FS have an incident/hazard reporting form called The Aviation  
13 Safety Communiqué (SAFECOM). The database, available at  
14 <https://www.safecom.gov/>, fulfills the Aviation Mishap Information System  
15 (AMIS) requirements for aviation mishap reporting for the DOI agencies and the  
16 FS. Categories of reports include: Accidents, Airspace, Hazards, Incidents,  
17 Maintenance, Mishap Prevention, and Kudos. The system uses the SAFECOM  
18 Form OAS-34 or FS-5700-14 to report any condition, observation, act,  
19 maintenance problem, or circumstance with personnel or aircraft that has the  
20 potential to cause an aviation-related mishap. The SAFECOM system is not  
21 intended for initiating punitive actions. Submitting a SAFECOM is not a  
22 substitute for "on-the-spot" correction(s) to a safety concern. It is a tool used to  
23 identify, document, track, and correct safety related issues. A SAFECOM does  
24 not replace the requirement for initiating an accident or incident report.

25 Any individual (including vendors/cooperators) with knowledge of an  
26 incident/hazard should complete a SAFECOM. The SAFECOM form, including  
27 attachments and pictures, should be entered directly on the internet at  
28 <https://www.safecom.gov/> or faxed to the Department of the Interior's Office of  
29 Aviation Services, Aviation Safety (208) 433-5069 or to the FS at (208) 387-  
30 5735 ATTN: SAFETY. Electronic cc copies are automatically forwarded to the  
31 National, Regional, State, and Unit Aviation Managers.

32 The agency with operational control of the aircraft at the time of the  
33 hazard/incident/accident is responsible for completing the SAFECOM and  
34 submitting it through agency channels.

#### 35 **Aircraft Incidents/Accidents**

36 Notification to the FS or OAS and DOI agency Aviation Safety Managers is  
37 required for any aircraft mishap involving damage or injury. Use the hotline  
38 (888) 464-7427 or the most expeditious means possible. Initiate the appropriate  
39 unit Aviation Mishap Response Plan.

**1 Low-level Flight Operations**

2 The only fixed-wing aircraft missions authorized for low-level fire operations  
3 are:

- 4 • Smokejumper/Para-cargo;
- 5 • Aerial Supervision Module (ASM) and Lead operations; and
- 6 • Retardant, water, and foam application.

**7 Operational Procedures**

- 8 • A high-level recon will be made prior to low-level flight operations.
- 9 • All flights below 500 feet will be contained to the area of operation.
- 10 • PPE is required for all fixed-wing, low-level flights. Helmets are not  
11 required for multi-engine airtanker crews, smokejumper pilots, and ASM  
12 flight/aircrew members.

**13 Congested Area Flight Operations**

14 Airtankers can drop retardant in congested areas under DOI authority given in  
15 *14 CFR Part 137*.

16 FS authority is granted under exemption 392, from *14 CFR Part 91.119* as  
17 referenced in *FSM 5714*. When such operations are necessary, they may be  
18 authorized subject to these limitations:

- 19 • Airtanker operations in congested areas may be conducted at the request of  
20 the city, rural fire department, county, state, or federal fire suppression  
21 agency;
- 22 • An ASM/Lead/ATCO is ordered to coordinate aerial operations;
- 23 • The air traffic control facility responsible for the airspace is notified prior to  
24 or as soon as possible after the beginning of the operation;
- 25 • A positive communication link must be established between the ASM or  
26 Lead/ATCO, airtanker pilot(s), and the responsible fire suppression agency  
27 official; and
- 28 • The IC for the responsible fire agency or designee will advise the  
29 ASM/leadplane/airtanker that all non-essential people and movable property  
30 have been cleared prior to commencing retardant drops.

**31 Unmanned Aircraft Systems**

32 Unmanned Aircraft Systems (UAS) or drone operation by individuals and  
33 organizations must be authorized by the FAA or comply with the *Special Rule*  
34 *for Model Aircraft* (Section 336 of P.L. 112-95). Information is available online  
35 at [www.faa.gov/uas](http://www.faa.gov/uas). Individuals who are determined to have interfered with  
36 wildland fire operations may be subject to civil penalties and potentially  
37 criminal prosecution.

- 1 When UAS are flown for USFS/DOI work or benefit, Federal Aviation
- 2 Administration (FAA), USFS, and DOI regulations apply.
- 3 Units wishing to utilize UAS must have a plan in place for how they are going to
- 4 collect, process, and disseminate data gathered by a UAS.
- 5 Consult with your Unit Aviation Officer or the Regional/State aviation staff to
- 6 assist in selecting and ordering the aircraft best suited for the mission.
- 7 The following minimum standards apply:
  - 8 • All aircraft (to include UAS) purchase, lease, or acquisition **must** follow
  - 9 agency procurement policy and procedures.
  - 10 • All aircraft and pilots employed by the USFS or DOI agencies **shall** be
  - 11 approved. Federal use of cooperator agency UAS may be authorized by a
  - 12 Cooperator Aircraft Letter of Approval, valid under the parameters of the
  - 13 FAA's Certificate of Waiver or Authorization (COA).
  - 14 • UAS flights under USFS operational control **must** adhere to USFS policy
  - 15 and regulations regarding their use. Guidance can be found in FSM 5713.7,
  - 16 the USFS National Aviation Safety and Management Plan and at
  - 17 <http://www.fs.fed.us/science-technology/fire/unmanned-aircraft-systems>.
  - 18 • UAS flights under DOI operational control **must** adhere to DOI policy and
  - 19 regulations regarding their use. Guidance can be found in 350-353
  - 20 Departmental Manuals and Operational Memoranda
  - 21 [https://www.doi.gov/sites/doi.opengov.ibmcloud.com/files/uploads/OPM-](https://www.doi.gov/sites/doi.opengov.ibmcloud.com/files/uploads/OPM-11.pdf)
  - 22 [11.pdf](https://www.doi.gov/sites/doi.opengov.ibmcloud.com/files/uploads/OPM-11.pdf).
  - 23 • All government agency use or takeoff and landing on federal land of UAS
  - 24 **requires** prior notifications and approval. Some agencies have issued
  - 25 internal direction regarding UAS use. Agency aviation managers must be
  - 26 consulted prior to commencing UAS operations to ensure compliance with
  - 27 individual agency policy that may be more stringent than FAA
  - 28 requirements. A Project Aviation Safety Plan (PASP) is required for all
  - 29 missions or projects, to include UAS missions on fires.
  - 30 • All government and commercial applications **require** an FAA "Certificate
  - 31 of Waiver or Authorization" (COA) which specifies the time, location, and
  - 32 operating parameters for flying the UAS. A COA also requires the
  - 33 requesting agency to certify the airworthiness of the proposed aircraft and
  - 34 definition of the standards used to make that determination. For federal
  - 35 fires, the DOI or USFS would be the lead agency for obtaining a COA
  - 36 depending on the jurisdiction of the fire. In the event of a multi-jurisdiction
  - 37 incident the DOI UAS specialist, the USFS UAS advisory group chair, or
  - 38 State or local representative will determine who should obtain the COA.

- 1 • Incident Management Teams **must** notify the agency administrator prior to
- 2 use of UAS. A modification to the Delegation of Authority should be
- 3 considered.
- 4 • Personally owned UAS or model aircraft **may not** be used by federal
- 5 agencies or their employees for interagency fire use.

#### 6 **Key Points**

- 7 • An emergency COA can only be issued by the FAA if the proponent
- 8 already has an existing COA for their aircraft. The request must be
- 9 accompanied with a justification that no other aircraft exist for the mission
- 10 and that there is eminent potential for loss of life, property, or critical
- 11 infrastructure, or is critical for the safety of personnel.
- 12 • Cooperators, pilot associations and volunteer aviation groups or individuals
- 13 may offer to fly unmanned aviation missions (e.g., aerial surveys, fire
- 14 reconnaissance, infrared missions) at no charge to the IMTs. Although these
- 15 offers seem very attractive, we cannot accept these services unless they
- 16 meet FAA, USFS and/or DOI policy.
- 17 • The use of any UAS (including model or remote controlled aircraft) with or
- 18 without compensation is considered a “commercial” operation per the FAA.
- 19 The FAA has established guidelines for hobbyists who fly model and
- 20 remote controlled aircraft via Advisory Circular 91-57. Model aircraft are to
- 21 be flown only for recreation or hobby purposes. For further information,
- 22 refer to <http://www.faa.gov/uas/>.

23 Additional information can be found on the FAA website  
24 <http://www.faa.gov/uas/>.

#### 25 **Airspace Coordination**

26 The Interagency Airspace Program is an aviation safety program designed to  
27 enhance aviation safety and reduce the risk of a mid-air collision. Guidance for  
28 this program is found in the Interagency Airspace Coordination Guide (IACG),  
29 which has been adopted as policy by the DOI and FS. Additional guidance may  
30 be found in the *National Interagency Mobilization Guide* and supplemented by  
31 local Mobilization Guides.

- 32 • *FS – Refer to FSM 5709.16 Chapter 30 and the Forest Service*  
33 *Administrative Use of Aircraft Desk Reference.*

34 Some BLM, state and FS units have Memorandums of Understanding (MOUs)  
35 with local military airspace authorities for airspace coordination. Briefings from  
36 Unit Aviation Managers/Officers (UAM/UAO) are crucial to ensure that any  
37 local airspace information is coordinated before flight.

38 All firefighting aircraft are required to have operative transponders and will use  
39 a national firefighting transponder code of 1255 when engaged in, or traveling

1 to, firefighting operations (excluding ferry flights), unless given a discrete code  
2 by Air Traffic Control (ATC).

3 Additional coordination information can be found by contacting:

- 4 • **BLM** – *State Aviation Managers, National Airspace Program Manager*
- 5 • **NPS** – *Regional Aviation Managers*
- 6 • **FWS** – *National Aviation Safety and Operations*
- 7 • **FS** – *Regional Aviation Officers, National Airspace Program Manager*

#### 8 **Flight Request and Approval**

- 9 • **NPS** – *Reference RM 60, Appendix 3 and 4.*
- 10 • **FS** – *Refer to FSM 5709.16, Chapter 30 for all flights.*

#### 11 **Point-to-Point Flights**

12 A “Point-to-point” flight is one that originates at one developed airport or  
13 permanent helibase and flies directly to another developed airport or permanent  
14 helibase with the sole purpose of transporting personnel or cargo (this term does  
15 not apply to flights with a scheduled air carrier on a seat fare basis). These types  
16 of flights are often referred to as “administrative” flights and only require the  
17 aircraft and pilot to be carded and approved for point-to-point flight. A point-to-  
18 point flight is conducted higher than 500 feet above ground level (AGL).

19 Agency policy requires designating a Flight Manager for point-to-point flights  
20 transporting personnel. The Flight Manager is a government employee that is  
21 responsible for coordinating, managing, and supervising flight operations. The  
22 Flight Manager is not required to be on board for most flights. For those flights  
23 that have multiple legs or are complex in nature a Flight Manager should attend  
24 the entire flight. The Flight Manager will meet the qualification standard for the  
25 level of mission assigned as set forth in the *Interagency Aviation Training Guide*  
26 (IAT).

- 27 • **BLM** – *Reference the BLM National Aviation Plan, Chapter 3, available at*  
28 *<http://www.blm.gov/nifc/st/en/prog/fire/Aviation/avlibrary.html>.*
- 29 • **NPS** – *Reference RM-60, Appendix 3 for agency specific policy.*
- 30 • **FS** – *Refer to FSM 5709.16 Chapter 30 and the Forest Service*  
31 *Administrative Use of Aircraft Desk Reference.*

#### 32 **Mission Flights**

33 Mission flights are defined as flights not meeting the definition of point-to-point  
34 flight. A mission flight requires work to be performed in the air (retardant or  
35 water delivery, fire reconnaissance, smokejumper delivery), or through a  
36 combination of ground and aerial work (delivery of personnel and/or cargo from  
37 helibases to helispots or unimproved landing sites, rappelling or cargo let-down,  
38 horse herding).

- 1 • PPE is required for any fixed wing mission flight conducted below
  - 2 500' AGL. Flight helmets are not required for multi-engine airtanker crews,
  - 3 smokejumper pilots and ASM flight/aircrew members.
  - 4 • Required attire for ATGS and fire reconnaissance are:
    - 5 ○ Leather shoes or boots; and
    - 6 ○ Natural fiber shirt, full length cotton or nomex pants, or flight suit.
  - 7 • The use of full PPE is required for all helicopter flights (point to point and
  - 8 mission) and associated ground operations. The specific items to be worn
  - 9 are dependent on the type of flight, the function an individual is performing,
  - 10 or the ground operation being conducted. Refer to the tables in Chapter 9 of
  - 11 the *IHOG* for specific requirements.
  - 12 • All personnel will meet training and qualification standards required for the
  - 13 mission.
  - 14 • Agency FM radio capability is required for all mission flights.
  - 15 • All passengers must be authorized and all personnel onboard must be
  - 16 essential to the mission.
    - 17 ○ *FS – Special Use Mission Flight is any flight that is not point-to-point.*
    - 18 *Special use mission flights require special pilot endorsements, flight*
    - 19 *evaluations, training, and/or specialized aircraft equipment. For all*
    - 20 *special use mission flights, all pilots and aircraft must be specifically*
    - 21 *approved in writing for that flight.*
- 22 Mission flights for fixed-wing aircraft include but are not limited to the
- 23 following:
- 24 • Water or retardant application;
  - 25 • Parachute delivery of personnel or cargo;
  - 26 • Airtanker coordinator operations;
  - 27 • Takeoff or landing requiring special techniques due to hazardous terrain,
  - 28 obstacles, or surface conditions; and
  - 29 • Night air tactical operations.
- 30 Mission helicopter flights include but are not limited to the following:
- 31 • Flights conducted within 500 feet AGL;
  - 32 • Water or retardant application;
  - 33 • Helicopter coordinator and ATGS operations;
  - 34 • Aerial ignition activities;
  - 35 • External load operations;
  - 36 • Rappelling;
  - 37 • Takeoff or landing requiring special techniques due to hazardous terrain,
  - 38 obstacles, pinnacles, or surface conditions;
  - 39 • Free-fall cargo;
  - 40 • Fire reconnaissance;
  - 41 • Short-haul operations; and
  - 42 • Night helicopter operations.

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**1 Flight-Following All Aircraft**

- 2 Flight-Following is mandatory for all flights. Refer to the *National Interagency*  
3 *Mobilization Guide* for specific direction.
- 4 • Agency FM radio capability is required for all mission flights.
  - 5 • For mission flights, there are two types of Agency Flight Following:  
6 Automated Flight Following (AFF) and radio check-in. AFF is the preferred  
7 method of agency flight following. If the aircraft and flight following office  
8 have AFF capability, it shall be utilized. Periodic radio transmissions are  
9 acceptable when utilizing AFF. Reference the AFF procedures section of  
10 the *National Interagency Mobilization Guide* for more information.
  - 11 • All dispatch centers designated for fire support shall have the ability to  
12 monitor AFF as well as the capability to transmit and receive "National  
13 Flight Following" and "Air Guard."
  - 14 • If AFF becomes inoperable the aircraft will normally remain available for  
15 service, utilizing radio/voice system for flight following. Each occurrence  
16 must be evaluated individually and decided by the COR/CO.
  - 17 • Helicopters conducting Mission Flights shall check-in prior to and  
18 immediately after each takeoff/landing per IHOG 4.II.E.2.

**19 Sterile Cockpit All Aircraft**

20 Sterile cockpit rules apply within a 5-mile radius of the airport. The flight crew  
21 will not perform radio or cockpit communication during that time that is not  
22 directly related to safe flight of the aircraft from taxi to 5 miles out and from 5  
23 miles out until clearing the active runway. This would consist of reading  
24 checklists, communication with Air Traffic Control (ATC), Flight Service  
25 Stations, Unicom, or other aircraft with the intent of ensuring separation or  
26 complying with ATC requirements. Communications by passengers or air crew  
27 members can be accomplished when the audio panels can be isolated and do not  
28 interfere with flight operations of the flight crew.

29 **Exception:** When conducting firefighting missions within 5 miles of an  
30 uncontrolled airport, maintain sterile cockpit until departing the traffic pattern  
31 and reaching final altitude. Monitor CTAF frequency if feasible while engaged  
32 in firefighting activities. Monitor CTAF as soon as practical upon leaving the  
33 fire and returning to the uncontrolled airport. When conducting firefighting  
34 missions within Class B, C, or D airspace, notify dispatch that ATC  
35 communications will have priority over dispatch communications.

**36 Interagency Interim Flight and Duty Limitations/Aviation Stand Downs**

37 Aviation stand downs are a means to find time, in an otherwise demanding flight  
38 schedule, to reflect on core aviation safety values. In this context, aviation stand  
39 downs refer to an administrative decision to keep tactical aviation resources on  
40 the ground through all or part of their normal duty day or days.

1 Interim flight and duty limitations are a method to manage pilot and crew  
2 fatigue by reducing the length of the duty day or increasing the number of days  
3 off in the normal duty day cycle. During extended periods of high flight activity,  
4 fatigue must be mitigated by fire and aviation managers.

5 Aviation stand downs and interim flight and duty day limitations can be  
6 implemented at the Geographic Area or National level. In either case, the  
7 procedure for implementation is the same. Requests for implementation of flight  
8 and duty limitations, or proposed stand down parameters, will be made through  
9 the National Aviation Office through which it originated.

10 Decisions and procedures for implementation will be made on a coordinated,  
11 interagency basis, involving the GACC, NICC, and National Aviation  
12 Representatives at NIFC and Aviation Contracting Officers. Details of the  
13 proposal will be formalized and coordinated with other affected agencies and  
14 implemented through the National Multi-Agency Coordinating Group (NMAC).

15 **Interim Flight and Duty Limitations Implementation**

16 During extended periods of a high level of flight activity or maximum 14-hour  
17 days, fatigue factors must be taken into consideration by Fire and Aviation  
18 Managers. Phase 2 and/or Phase 3 Duty Limitations will be implemented for  
19 specific geographic area's aviation resources. The minimum scope of operation  
20 should be by geographic area; e.g., Northwest, Great Basin.

21 ***Phase 1 – Standard Flight and Duty Limitations (Abbreviated Summary)***

- 22 • 14-hour maximum duty day;
- 23 • 8 hours maximum daily flight time for mission flights;
- 24 • 10 hours for point-to-point, with a 2 pilot crew;
- 25 • Maximum cumulative flight hours of 36 hours, up to 42 hours in 6 days;
- 26 and
- 27 • Minimum of 10 hours uninterrupted time off (rest) between duty periods.

28 This does not diminish the authority or obligation of any individual COR  
29 (Contracting Officer Representative) or Aviation Manager to impose shorter  
30 duty days or additional days off at any time for any flight/maintenance crew  
31 members for fatigue. This authority is currently provided for in agency direction  
32 and contract specifications. Aviation managers should consider the following  
33 actions:

- 34 • Any tactical aircraft flight crew member (airtanker, helicopter, ASM/lead  
35 plane, SEAT or air attack) may request an additional day off in conjunction  
36 with their normally scheduled day(s) off.
- 37 • The additional day off may be granted when requested. Flight crews are  
38 encouraged to honestly assess their fatigue level and request an additional  
39 day off if they believe it is needed.
- 40 • Aircraft availability will be paid when this occurs regardless of whether a  
41 relief crew is provided or not.

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- 1 • When an additional day off is granted, document this in the remarks section
- 2 of the aircraft payment document.
- 3 • In order to assure sufficient coverage, additional days off will need to be
- 4 coordinated within the currently assigned GACC and communicated to
- 5 national aviation managers. Coordinate with your aviation managers,
- 6 contracting officers and dispatch organizations to implement these actions.

7 ***Phase 2 – Interim Duty Limitations***

- 8 When Phase 2 is activated, pilots shall adhere to the flight and day-off
- 9 limitations prescribed in Phase 1 and the duty limitations defined under Phase 2.

10 Each flight crew member shall be given an additional day off each 14-day

11 period. Crews on a 12-and-2 schedule shall have 3 consecutive days off (11-and-

12 3). Flight crews on 6-and-1 schedules shall work an alternating weekly schedule

13 of 5 days on, 2 days off, then 6 days on and one day off.

14 Aircraft fixed daily rates and special rates, when applicable, shall continue to

15 accrue during the extra day off. Contractors may provide additional approved

16 crews to maximize utilization of their aircraft. All costs associated with

17 providing the additional crew will be at the contractor's expense, unless the

18 additional crew is requested by the Government.

19 ***Phase 3 – Interim Duty Limitations***

- 20 When Phase 3 is activated, pilots shall adhere to the flight limitations of Phase 1
- 21 (standard), the additional day off of Phase 2, and the limitations defined under
- 22 Phase 3.

23 Flight crew members shall have a minimum of 12 consecutive hours of

24 uninterrupted rest (off duty) during each duty day cycle. The standard duty day

25 shall be no longer than 12 hours, except a crew duty day extension shall not

26 exceed a cumulative 14-hour duty day. The next flight crew rest period shall

27 then be adjusted to equal the extended duty day; i.e., 13- hour duty day, 13 hours

28 rest; 14- hour duty day, 14 hours rest. Extended duty day applies only to

29 completion of a mission. In no case may standby be extended beyond the 12-

30 hour duty day.

31 Double crews (2 complete flight crews assigned to an aircraft), augmented flight

32 crews (an additional pilot-in-command assigned to an aircraft), and aircraft

33 crews that work a rotating schedule; i.e., 2 days on, 1 day off, 7 days on, 7 days

34 off, or 12 days on, 12 days off, may be exempted from Phase 2 Limitations upon

35 verification that their scheduling and duty cycles meet or exceed the provisions

36 of Paragraph a. of Phase 2 and Phase 1 Limitations.

37 Exemptions of Phase 3 provisions may be requested through the local Aviation

38 Manager or COR, but must be approved by the FS RAO or DOI Area Aviation

39 Manager.

**1 Aviation Assets**

- 2 Typical agency aviation assets include: Helitack or Rappel, Aerial Supervision  
3 (ATGS, Lead, and ASM), Large (multi-engine) Airtankers, Very Large  
4 Airtankers (VLATs), Single Engine Airtankers (SEATs), and Smokejumpers.
- 5 • *BLM – All BLM acquired aircraft (exclusive use, On-Call, and CWN) are*  
6 *available to move to areas of greatest Bureau need, thereby maximizing*  
7 *efficiency and effectiveness. Specific authorities and responsibilities for*  
8 *Field/State and National Offices are outlined earlier in this chapter. Offices*  
9 *are expected to adhere to procedures established in the National Aviation*  
10 *Plan for both acquisition and use reporting.*
  - 11 • *FS – All FS aircraft (agency-owned, exclusive use, leased and CWN) are*  
12 *available to move to areas of greatest agency need, thereby maximizing*  
13 *efficiency and effectiveness. Forest Service units are expected to adhere to*  
14 *procedures established in policy for acquisition and use reporting.*

**15 Helitack**

16 Helitack crews perform suppression and support operations to accomplish fire  
17 and resource management objectives.

**18 Organization – Crew Size**

- 19 • *BLM – The standard BLM exclusive-use helitack crew size for a Type 3*  
20 *helicopter is a minimum of seven personnel (supervisor, assistant, squad*  
21 *boss, and four crew members). The standard BLM exclusive-use helitack*  
22 *crew size for a Type 2 helicopter is a minimum of ten personnel (supervisor,*  
23 *assistant, squad boss, and seven crewmembers). BLM helicopters operated*  
24 *in Alaska need only be staffed with a qualified Helicopter Manager*  
25 *(HMGB).*
- 26 • *NPS – Helicopter exclusive-use modules will consist of a minimum of eight*  
27 *fire funded personnel. The NPS regions may establish larger crew size and*  
28 *standards for their exclusive use helicopter crews based on the need for an*  
29 *all hazard component (Fire, SAR, Law Enforcement, and EMT). Exception*  
30 *to minimum helicopter crew staffing standards must be approved by the*  
31 *National Aviation Office. NPS helicopters operated in Alaska need only be*  
32 *staffed with a qualified Helicopter Manager (HMGB).*
- 33 • *FS – Regions may establish minimum crew size and standards for their*  
34 *exclusive use helitack crews. Experience requirements for exclusive-use*  
35 *helicopter positions are listed in FAQG, Chapter 4.*

1 **Operational Procedures**

2 The *Interagency Helicopter Operations Guide* (IHOG) NFES 1885 is policy for  
3 helicopter operations.

4 **Communication**

5 The helitack crew standard is one handheld programmable multi-channel FM  
6 radio per every two crew persons, and one multi-channel VHF-AM  
7 programmable radio in the primary helitack crew (chase) truck. Each helitack  
8 crew (chase) vehicle will have a programmable VHF-FM mobile radio. Each  
9 permanent helibase will have a permanent programmable FM radio base station  
10 and should be provided a VHF-AM base station radio.

11 **Transportation**

12 Dedicated vehicles with adequate storage and security will be provided for  
13 helitack crews. The required Gross Vehicle Weight (GVW) of the vehicle will  
14 be dependent upon the volume of equipment carried on the truck and the number  
15 of helitack crewmembers assigned to the crew.

- 16 • *BLM – Minimum vehicle configuration for a seven person crew will consist*  
17 *of one Class 661 Helitack Support Vehicle and one Class 156 or Class 166*  
18 *vehicle.*

19 **Training and Experience Requirements**

20 All helitack members will meet fire qualifications as prescribed by the National  
21 Wildfire Coordinating Group (NWCG) 310-1 and their agency manual  
22 requirements. The following chart establishes experience and training  
23 requirements for FS, BLM, NPS, and FWS Exclusive Use, Fire Helicopter Crew  
24 Positions.

25 Non-Exclusive Use HECM's and HMGB's should also meet the following  
26 currency requirements.

27 **Note:** the Interagency Aviation Training Guide (February 2014) states  
28 additional aviation training requirements (A courses). The Guide is available at  
29 [http://www.iat.gov/docs/IAT\\_Guide\\_2014\\_0331.pdf](http://www.iat.gov/docs/IAT_Guide_2014_0331.pdf).

1 **Exclusive Use Fire Helicopter Position Prerequisites**

Position <sup>1</sup>	Minimum Prerequisite Experience <sup>2</sup>	Minimum Required Training <sup>3</sup>	Currency Requirements
Fire Helicopter Crew Supervisor	One season <sup>4</sup> as an Assistant Fire Helicopter Crew Supervisor, ICT4, HMGB, HEB2		RT-372 <sup>5</sup> RT-130
Assistant Fire Helicopter Crew Supervisor	One season as a Fire Helicopter Squad Boss, ICT4, HMGB, HEB2(T)	I-200, S-215, S-219, S-260, S-270	RT-372 <sup>5</sup> RT-130
Fire Helicopter Squad Boss	One season as a Fire Helicopter Crewmember, FFT1, ICT5	S-211, S-212	RT-130
Fire Helicopter Crewmember	One season as a FFT2, HECM Taskbook	S-271	RT-130

<sup>1</sup> All Exclusive use Fire Helicopter positions require an arduous fitness rating.

<sup>2</sup> Minimum experience and qualifications required prior to performing in the Exclusive use position. Each level must have met the experience and qualification requirements of the previous level(s).

<sup>3</sup> Minimum training required to perform in the position. Each level must have met the training requirements of the previous level(s).

<sup>4</sup> A "season" is continuous employment in a primary wildland fire position for a period of 90 days or more.

<sup>5</sup> After completing S-372, must attend Interagency Helicopter Manager Workshop (RT-372) within three years and every three years thereafter.

- 2 **Note:** Exceptions to the above position standards and staffing levels may be  
3 granted on a case-by-case basis by the BLM National Aviation Office, NPS  
4 Regional Office, FWS Regional Office, or FS Regional Office as appropriate.  
5 • Some positions may be designated as COR/Alternate-COR. If so, see  
6 individual Agency COR training and currency requirements.  
7 • Fire Helicopter Managers (HMGB) are fully qualified to perform all the  
8 duties associated with Resource Helicopter Manager.

9 **Helicopter Rappel and Cargo Let-Down**

10 Any rappel or cargo let-down programs must be approved by the appropriate  
11 agency national headquarters.

- 12 • *BLM – BLM personnel involved in an Interagency Rappel Program must*  
13 *have SFMO approval.*  
14 • *NPS – Approval is required by the National Office.*  
15 • *FS – Approval is required by the National Office.*

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1 All rappel and cargo let-down operations will follow the *Interagency Helicopter*  
2 *Rappel Guide* (IHRG), as policy. Any exemption to the guide must be requested  
3 by the program through the state/region for approval by the National Aviation  
4 Office (BLM), or Director of Fire and Aviation (FS).

5 **Emergency Medical Short-haul**

6 The emergency medical short-haul mission is intended to extract injured or ill  
7 personnel from areas where a ground based evacuation would expose rescuers to  
8 greater risk or where such evacuation would likely cause greater harm or  
9 threaten the life or limbs of the patient due to added exposure or time delay. The  
10 short-haul transport of personnel or patients should occur over the shortest  
11 reasonable distance to a location where another type of medical transportation is  
12 available (e.g., ground ambulance, EMS/life flight, or internal in an agency  
13 helicopter).

14 All emergency medical short-haul programs must be approved by the  
15 appropriate agency national headquarters.

- 16 • *NPS/FS – National Office approval is required.*

17 All short-haul operations will comply with the following policy:

- 18 • *NPS – Helicopter Short-haul Handbook.*  
19 • *FS – Emergency Medical Short-Haul Operations Plan (EMSHOP).*

20 Exemptions to the policy must be requested by the program through the regional  
21 office for approval by the National Aviation Office (NPS) or Director of Fire  
22 and Aviation (FS).

23 **Aerial Ignition**

24 The *Interagency Aerial Ignition Guide* (IAIG) is policy for all aerial ignition  
25 activities.

26 **Fire Chemical Avoidance Areas**

27 See Chapter 12 (Suppression Chemicals and Delivery Systems) for guidance.

28 **Aerial Supervision Principles for ATGS, ASM, and Lead**

29 The response speed of aerial supervision resources contributes greatly to  
30 established aggressive initial attack doctrine and should be utilized accordingly.

31 Aerial supervision resources will be dispatched when available to  
32 initial/extended attack incidents in order to enhance safety, effectiveness, and  
33 efficiency of aerial/ground operations.

1 When aerial supervision resources are collocated with airtankers, they should be  
2 launched together to maximize the safety, effectiveness, and efficiency of  
3 incident operations.

4 Incidents with three or more aircraft over/assigned to them should also have  
5 aerial supervision in the form of ATGS or ASM. A qualified smokejumper  
6 spotter (senior smokejumper in charge of smokejumper missions) may  
7 coordinate airspace over a fire until a qualified ATGS arrives.

#### 8 **Operational Procedures and Policy**

9 The *Interagency Aerial Supervision Guide* (IASG, PMS 505) provides  
10 operational procedures for all aerial supervision resources. The IASG and  
11 additional aerial supervision forms are maintained online at the NWCG website  
12 <http://www.nwcg.gov/publications/505>.

13 The *NIMS Wildland Fire Qualification System Guide* (PMS 310-1) provides  
14 training, qualification, and currency standards.

- 15 • *FS – Forest Service aerial supervision training, qualifications, and*  
16 *currency standards are contained in the Fire and Aviation Qualifications*  
17 *Guide (FAQG).*

18 The IASG contains additional requirements and is policy for the BLM, BIA,  
19 FWS, and NPS.

#### 20 **Air Tactical Group Supervisor (ATGS)**

21 The ATGS coordinates incident airspace and manages incident air traffic. The  
22 ATGS is an airborne firefighter who coordinates, assigns, and evaluates the use  
23 of aerial resources in support of incident objectives. Specific duties and  
24 responsibilities are outlined in the *Wildland Fire Incident Management Field*  
25 *Guide* (PMS 210) and the *Interagency Aerial Supervision Guide* (NFES 2544).

#### 26 **Program Management**

27 The air attack program is managed at the national level by agency program  
28 managers. The National Interagency Aviation Committee (NIAC) provides  
29 guidance through the Interagency Aerial Supervision Subcommittee (IASS),  
30 which authorizes an ATGS Cadre to provide operational and programmatic  
31 oversight at the Geographic Area level.

#### 32 **Training**

33 Classroom training is completed as per the PMS 310-1.

34 Field (flight) training assignments are coordinated and prioritized by the  
35 Geographic Area Training Representatives and ATGS Cadre, and is  
36 implemented based on a national interagency trainee priority list.

- 1 National interagency ATGS training aircraft have been identified and are  
2 utilized for the sole purpose of ATGS flight training.

3 **Operational Considerations**

- 4 • Ground resources will maintain consistent communication on assigned air  
5 to ground frequencies with aerial supervision to maximize the safety,  
6 effectiveness, and efficiency of aerial operations.  
7 • Relief aerial supervision should be ordered for sustained operations to  
8 ensure continuous coverage over an incident.  
9 • Personnel who are performing aerial reconnaissance and detection will not  
10 perform aerial supervision duties unless they are fully qualified as an  
11 ATGS.  
12 • ATGS aircraft must meet the aircraft/avionics typing requirements listed in  
13 the IASG and the pilot must be carded to perform the air tactical mission.  
14 Rotor-wing pilots are not required to be carded for air tactical missions.

15 **Leadplane**

- 16 A leadplane is a national shared resource.

17 Agency policy requires an ASM or Lead/ATCO to be on order prior to aerial  
18 retardant/suppressant delivery over a congested area. Operations may proceed  
19 before the ASM or Lead/ATCO arrives if communications are established with  
20 on-site resources, authorization is granted from the IC, and the line is cleared  
21 prior to commencing aerial application operations.

22 **Aerial Supervision Module (ASM)**

- 23 The ASM is a national shared resource.

24 The ASM is crewed with both a Lead/ATCO qualified Air Tactical Pilot (ATP)  
25 and an Air Tactical Supervisor (ATS). These individuals are specifically trained  
26 to operate together as a team. The resource is primarily designed for providing  
27 both functions (Lead/ATCO and ATGS) simultaneously from the same aircraft,  
28 but can also provide single role service.

29 The ATP is primarily responsible for aircraft coordination over the incident. The  
30 ATS develops strategy and implements tactical plans through coordination with  
31 the IC or designee.

32 **Operational Considerations**

- 33 Any operation that limits the national resource availability must be approved by  
34 the agency program manager.

35 Aerial or incident complexity and environmental considerations will dictate  
36 when the ASM ceases low-level operations. The ASM flight crew has the  
37 responsibility to determine when the complexity level of the incident exceeds

- 1 the capability to perform both ATGS and leadplane functions from one aircraft.
- 2 The crew will request additional supervision resources, or modify the operation
- 3 to maintain mission safety and efficiency.

4 **Policy**

- 5 Only those individuals certified and authorized by the BLM–National Aviation
- 6 Office or the FS–Branch Chief Pilot Standardization will function as an Air
- 7 Tactical Supervisor (ATS) in an ASM mission profile.

8 **Aerial Supervision Module Program Training and Qualifications**

- 9 Training and qualification requirements for ASM crewmembers are defined in
- 10 the IASG.

11 **Reconnaissance or Patrol Flights**

- 12 The purpose of aerial reconnaissance or detection flights is to locate and relay
- 13 fire information to fire management. In addition to detecting, mapping, and
- 14 sizing up new fires, this resource may be utilized to provide ground resources
- 15 with intelligence on fire behavior, provide recommendations to the IC when
- 16 appropriate, and describe access routes into and out of fire areas for responding
- 17 units. Only qualified Aerial Supervisors (ATGS, ASM, HLCO and Lead/ATCO)
- 18 are authorized to coordinate incident airspace operations and give direction to
- 19 aviation assets. Flights with a “Recon, Detection, or Patrol” designation should
- 20 communicate with tactical aircraft only to announce location, altitude and to
- 21 relay their departure direction and altitude from the incident.

22 **Airtankers**

- 23 Federally contracted airtankers are national resources. Geographic areas
- 24 administering these aircraft will make them available for initial attack and
- 25 extended attack fires on a priority basis. The GACC will ensure that all support
- 26 functions (e.g. dispatch centers and tanker bases) are adequately staffed and
- 27 maintained to support the mobilization of aircraft during normal and extended
- 28 hours.

- 29 For aviation safety and policy concerning wildland fire chemicals see Chapter
- 30 12 (Suppression Chemicals and Delivery Systems).

- 31 Airtankers are owned and operated by commercial vendors or owned by the
- 32 Forest Service and operated by contractors. The management of airtankers is
- 33 governed by:

- 34 • *BLM – The requirements of the DM, BLM NAP, and BLM Manual 9400.*
- 35 • *FS – Airtankers operate in accordance with 14 CFR Part 137, specific*
- 36 *contracts, Grants of Exemption and operations plans.*



**1 Airtanker Types**

2 Airtankers are typed according to their load capacity:

- 3 • Very Large Air Tankers (VLAT) – 8,000 gallons or more
- 4 • Type 1 – 3,000 to 7,999 gallons
- 5 • Type 2 – 1,800 to 2,999 gallons
- 6 • Type 3 – 800 to 1,799 gallons
- 7 • Type 4 – up to 799 gallons

**8 Airtanker Rotation**

9 The national airtanker fleet includes a mix of Exclusive Use (EU), Call When  
10 Needed (CWN)/On-Call Type 1 and Type 2 airtankers (Large Airtankers or  
11 LATs), Very Large Airtankers (VLATs), Single Engine Airtankers (SEATs) and  
12 Forest Service owned airtankers. To ensure consistent utilization, rotation, and  
13 management of the national airtanker fleet, the following is interagency  
14 direction for the management of airtanker rotation and supplements direction  
15 contained in *Interagency Airtanker Base Operations Guide* (PMS 508) and in  
16 *Interagency SEAT Operations Guide* (PMS 506).

17 All LATs, VLATs and SEATs operating from the same base shall be dispatched  
18 in rotation based on the type of airtanker requested on a first in/first out basis  
19 regardless of contract type (EU, CWN/On-Call or Forest Service owned) or the  
20 location of the incident.

21 First in/first out also applies to airtankers that are requested for a load/return.  
22 When an incident requires multiple loads of retardant, Aerial  
23 Supervisors/Incident Commanders will notify the appropriate dispatch center of  
24 the need for additional retardant and any operational retardant delivery  
25 requirements. To ensure timely and effective retardant delivery, dispatch will  
26 order the next available airtanker in rotation if an airtanker that meets the  
27 requirement of the request is available and located at the load and return  
28 airtanker base.

**29 Exceptions**

- 30 1. A Leadplane or Aerial Supervision Module (ASM) is not available and the  
31 airtanker crew is not approved for independent IA response.
- 32 2. Incident commanders/aerial supervision requests a specific type of resource  
33 (e.g., VLAT, LAT, or SEAT).
- 34 3. On-scene aerial supervision determines that the use of a specific  
35 make/model airtanker is not effective based on factors such as risk,  
36 maneuverability in terrain, and/or effectiveness.
- 37 4. The next airtanker in rotation has an operating restriction at the base where  
38 it is being assigned. Operating restrictions may include fuel and retardant  
39 availability, airtanker base or airport restrictions, significant downloading  
40 based on performance, or distance to the incident is not considered  
41 effective.

- 1 5. Repositioning of an airtanker closer to where their maintenance crews or  
2 supplies are available. The National Interagency Coordination Center  
3 (NICC) will facilitate in coordination with the Geographic Area  
4 Coordination Center (GACC).
- 5 6. A benefit to the government would be realized by changing the rotation.  
6 This will be facilitated by the GACC or NICC with consideration to days  
7 off, mission requirements, and/or anticipated need.
- 8 7. Airtankers are returning after day(s) off. Upon returning to availability from  
9 days off, these airtankers will be at the end of the rotation at the airtanker  
10 base. Airtankers that work a seven day schedule retain their position in the  
11 rotation.
- 12 8. MAFFS and Canadian airtankers supplementing the commercial airtanker  
13 fleet will begin rotation at that base after the contracted and FS owned  
14 airtanker(s) at the beginning of each day.
- 15 9. Water Scoopers will not be included in airtanker base rotations.

16 **Rotation of State Airtankers**

17 Rotation of State resources on State incidents at a state airtanker base is  
18 established by their agency.

19 In cases where State resources are operated in conjunction with federally  
20 contracted airtankers on an incident primarily on federal lands, the State  
21 airtankers are added to the rotation after the federal airtankers at the beginning  
22 of each day.

23 **Additional Information**

24 Forest Service/DOI contracted airtankers, when assigned to incidents managed  
25 by other agencies or state cooperators remain under the direction of the  
26 Contracting Agency. Forest Service and DOI Contracted airtankers are bound  
27 only by their contract and will be treated fairly and equitably during their  
28 assignment with other federal or state agencies.

29 **Canadian Airtankers**

30 Canadian registered CV-580 airtankers under contract to the State of Alaska can  
31 be mobilized to the lower 48 as approved cooperator aircraft. These airtankers  
32 have been carded by OAS under 351 DM 4, OPM-53, and FSH 5712.43 as  
33 Initial Attack (IA) resources. Operationally they can be used similar to other  
34 federally contracted airtankers and can be directed by U.S. ASM/Leadplanes or  
35 Canadian Bird Dogs.

36 Additional Canadian airtankers can be activated through the NIFC/CIFFC  
37 agreement. These Canadian airtankers are operated as a "group" with Canadian  
38 Bird Dogs as part of their operational model. Bird Dogs have a Canadian Air  
39 Attack Officer (AAO) on board and function similar to a U.S. ASM/Leadplane.

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- 1 The standard operating procedure for the Canadian Airtanker Groups is as  
2 follows:
- 3 • Canadian airtankers must be supervised by a Bird Dog or U.S.  
4 ASM/Leadplane, and must include at a minimum a low level “show me”  
5 pass.
  - 6 • Canadian Bird Dogs may provide low level target identification runs  
7 (“show me” pass) for either Canadian or US contracted airtankers.
  - 8 • Canadian Bird Dogs can perform the functions of an ATGS.
  - 9 • Canadian Bird Dogs are not authorized to “lead” Forest Service contracted  
10 airtankers.
  - 11 • U.S. ASM/Leadplanes are authorized to “lead” Canadian airtankers.

## 12 **Airtanker Base Operations**

13 Certain parameters for the operation of airtankers are agency-specific. For  
14 dispatch procedures, limitations, and times, refer to geographic area  
15 mobilization guides and the Interagency Airtanker Base Operations Guide  
16 (IABOG).

### 17 **Loading Operations**

18 Forest Service contracted airtankers, owned airtankers and Modular Airborne  
19 Firefighting System (MAFFS) airtankers shall be loaded with retardant or water  
20 measured in pounds by a Mass Flow Meter. Refer to FSH 5709.16, Chapter 30  
21 for more information.

### 22 **Airtanker Base Personnel**

23 There is identified training for the positions at airtanker bases; the Interagency  
24 Airtanker Base Operations Guide (IABOG) contains a chart of required training  
25 for each position. It is critical that reload bases are prepared and staffed during  
26 periods of moderate or high fire activity at the base. All personnel conducting  
27 airtanker base operations should review the IABOG and have it available.

### 28 **Startup/Cutoff Time for Multi Engine Airtankers**

29 Refer to the *Interagency Aerial Supervision Guide* (NFES 2544).

### 30 **Single Engine Airtankers**

#### 31 **Single Engine Airtanker (SEAT) Operations, Procedures, and Safety**

32 The *Interagency SEAT Operating Guide* (ISOG, NFES 1844) defines operating  
33 standards and is policy for both the DOI and FS.

#### 34 **Single Engine Airtanker Manager Position**

35 The SEAT Manager (SEMG) duties and responsibilities are outlined in the  
36 ISOG. SEMGs ensure adherence to contract regulations, safety requirements,  
37 and fiscal accountability.

**1 Operational Procedures**

2 Using SEATs in conjunction with other aircraft over an incident is standard  
3 practice. Agency or geographical area mobilization guides may specify  
4 additional procedures and limitations.

5 Depending on location, operator, and availability, SEATs are capable of  
6 dropping suppressants, water, or approved chemical retardants. Because of the  
7 load capacities of the SEATs (500 to 800 gallons), quick turn-around times  
8 should be a prime consideration.

9 SEAT operations at established airtanker bases or reload bases are authorized.  
10 All BLM and FS Airtanker base operating plans will permit SEAT loading in  
11 conjunction with large airtankers.

**12 Smokejumper Pilots**

13 The *Interagency Smokejumper Pilot Operations Guide* (ISPOG) serves as policy  
14 for smokejumper pilot qualifications, training, and operations.

**15 Military or National Guard Helicopters and Pilots**

16 The *Military Use Handbook* (NFES 2175) will be used when planning or  
17 conducting aviation operations involving regular military aircraft. Ordering  
18 military resources is done through the National Interagency Coordination Center  
19 (NICC); National Guard resources are utilized through local or state  
20 Memorandum of Understanding (MOU).

**21 Modular Airborne Fire Fighting System (MAFFS)**

22 The *MAFFS Operating Plan* (available from the National Interagency  
23 Coordination Center) will be used when planning or conducting aviation  
24 operations involving MAFFS military aircraft. Ordering MAFFS is done  
25 through the National Interagency Coordination Center (NICC); MAFFS are  
26 utilized through a national agreement (see the *National Interagency*  
27 *Mobilization Guide*). Several states have the ability to activate MAFFS through  
28 separate agreements that do not require ordering through NICC.

**29 Cooperator Aircraft**

30 Aircraft procured/owned by cooperating agencies (state, local, and International)  
31 may be utilized on federally managed fires when federal cooperative agreements  
32 are in place that approve those aircraft and pilots for the intended missions.

33 The purpose of this direction is to keep non-federally approved aircraft under the  
34 operational control of the agency providing the aircraft, to the extent possible.

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1 States may use aircraft that have not been identified as an "Approved  
2 Cooperator Aircraft" on federal lands when and where the state is the protecting  
3 agency in a reciprocal or off-set agreement or when state lands are threatened  
4 and the state maintains operational control of the aircraft.

5 The following conditions apply for non-federally approved aircraft:

- 6 • No federal employees are allowed to ride on board the aircraft.
- 7 • No federal employee may be assigned to a position that exercises  
8 contractual control.
- 9 • They are approved to have federal personnel load retardant at federal  
10 airtanker bases, regardless of jurisdiction.
- 11 • Federal personnel may provide aerial supervision (ATGS, ASM, HELCO,  
12 Leadplane) under existing standard procedures and agreements.
- 13 • They remain under state operational control regardless of the agency  
14 affiliation of the firefighters directing the aircraft on an incident with state  
15 jurisdiction.
- 16 • They are approved to interact with federal dispatch personnel as long as the  
17 aircraft remains under the operational control of the state or for safety  
18 reasons.

19 Under emergency circumstances, where **human life is immediately at risk** by  
20 wildland fire on federal lands under federal protection, a federal line officer can  
21 approve the use of non-federally approved aircraft to address the immediate  
22 threat. This exemption must only take place when sufficient federal firefighting  
23 aircraft are not readily available to meet the emergency need. Line officers are  
24 encouraged to consult with their agency aviation management personnel to aid  
25 in decision-making.

26 As exemptions are exercised, they must be documented by the approving federal  
27 line officer in accordance with their agencies guidance to include submitting a  
28 SAFECOM within 24 hours.

- 29 • *FS – Non-federally approved aircraft shall not be used on National Forest  
30 System (NFS) lands, when the Forest Service has operational control,  
31 unless human life is immediately at risk. Non-federally approved aircraft  
32 shall not be used when the Forest Service is the protecting agency in a  
33 reciprocal or off-set agreement. State cooperators may use non-federally  
34 approved aircraft on NFS lands only when state lands are threatened, as  
35 long as the state is in operational control of the aircraft. When in unified  
36 command, non-federally approved aircraft shall not be used on federal  
37 lands unless state lands are threatened, as long as the state is in  
38 operational control of the aircraft. Refer to Forest Service Regional official  
39 letters regarding use of non-federally approved aircraft and region-specific  
40 notification, approval and reporting processes and FSM 5709.16 Chapter  
41 30.*

## Chapter 17 Fuels Management

### Introduction

The purpose of the Fuels Management (FM) programs within the Department of the Interior (DOI) and the Forest Service (FS) is to reduce hazardous fuels and risks to human communities and improve the health of the land by creating fire-resilient landscapes and restoring fire-adapted ecosystems.

The DOI and FS, along with other federal, state, tribal, and local partners, will work to ensure effective FM efforts are collectively planned and implemented. These efforts will be consistent with the direction provided in:

- *Review and Update of the 1995 Federal Wildland Fire Management Policy (January 2001)*
- *Guidance for Implementation of Federal Wildland Fire Management Policy (February 13, 2009)*

### Policy

The federal fire agencies use the *Interagency Prescribed Fire Planning and Implementation Procedures Guide* (PMS 484) to manage prescribed fire activities. This guide provides standardized procedures specifically associated with the planning and implementation of prescribed fire.

Fuels Management – Policy, project planning and implementation priorities, and standards common to all agencies:

- The safety of firefighters and the public is the number one priority when planning and implementing projects/treatments;
- All projects/treatments will support resource management objectives as identified in their agency-specific Land/Resource Management Plans;
- All projects/treatments will have plans that contain measurable objectives;
- All projects/treatments will comply with National Environmental Policy Act (NEPA) and all other regulatory requirements;
- All projects/treatments will be tracked and progress will be reported within required timeframes; and
- All projects will be monitored to determine if treatment objectives were met and to document weather, fire behavior, fuels information, and smoke dispersion. Evaluation reports are to be completed and maintained in the project file.

Some programmatic differences are identified in the following agency-specific documentation and serve as agency-specific direction.

- *BLM – Refer to FA IM 2015-003.*
- *NPS – Refer to RM 18.*

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- 1 • *FWS – Refer to Fire Management Handbook, Chapter 17.*
- 2 • *FS – Refer to FSM 5140*

### 3 **Reporting Fuels Management Accomplishments**

4 The Hazardous Fuels Reduction (HFR) Module of the National Fire Plan  
5 Operations and Reporting System (NFPORS) is the national system for  
6 submitting proposed projects for approval, tracking accomplishments of the  
7 program, reporting performance, measuring accomplishments, and  
8 accountability for all agencies in the Department of Interior.

9 Forest Service fuels management accomplishments are entered into the Forest  
10 Service Activity Tracking System (FACTS) as the official system of record for  
11 tracking and reporting. This data is shared with NFPORS to facilitate  
12 interagency joint reporting needs.

13 Information on FACTS can be found at  
14 <http://fsweb.ftcol.wo.fs.fed.us/frs/facts/index.shtml>. Acres treated through Forest  
15 Service funded State Fire Assistance grants are recorded directly in NFPORS.

### 16 **Reporting Fuels Treatment Effectiveness Monitoring (FTEM)**

17 Anytime a wildfire starts in or interacts with a fuel treatment area, policy for all  
18 agencies requires that we document the outcome to examine whether the  
19 treatment had the desired effect of reduced fire behavior and/or provided  
20 opportunities to firefighters for effective management of the wildfire.

- 21 • *BLM – Offices will complete a fuels treatment effectiveness assessment and*  
22 *input appropriate information into the Fuels Treatment Effectiveness*  
23 *Monitoring (FTEM) online tool for all wildfires which start in, burn into, or*  
24 *burn through any portion of a fuel treatment area that has been completed*  
25 *and reported in the Hazardous Fuels Module of the National Fire Plan*  
26 *Operations and Reporting System (NFPORS) from fiscal year 2003 to*  
27 *present. If offices have wildfire/treatment intersections that have occurred*  
28 *prior to 2003 or are not in NFPORS, as long as offices can document that*  
29 *fuels dollars were expended on these treatments and the wildfire is recorded*  
30 *in the Wildland Fire Management Information (WFMI) system, the record*  
31 *should be entered into FTEM. It is important that treatment data entered*  
32 *into FTEM are consistent with the NFPORS, and that wildfire information*  
33 *is consistent with the WFMI system. Refer to FA IM-2015-001.*
- 34 • *NPS – Refer to RM 18 and Documenting Hazardous Fuels Reduction*  
35 *Program Treatment Effectiveness Memo, 10/09/2012.*
- 36 • *FWS – Refer to Fire Management Handbook, Chapter 17.*
- 37 • *FS – Refer to FSM 5140.*

**1 Regarding Planned Fuels Treatments Burned in a Wildfire**

2 For DOI agencies, acres burned in a wildfire may only be reported in the  
3 NFPORS Hazardous Fuels Reduction Module as "Fire Use" if all the following  
4 conditions are met:

- 5 • The area burned was in a pre-existing NFPORS treatment unit;
- 6 • The accomplishment has been approved from the Regional and/or National  
7 level;
- 8 • NEPA is complete; and
- 9 • The planned objectives were met.
  - 10 ○ *FS – Acres burned from an unplanned natural ignition may be*  
11 *reported as "Fire Use" accomplishment if the resulting fire effects*  
12 *meet objectives from the Land and Resource Management Plan or*  
13 *project-specific NEPA decision document. Human-caused wildfires*  
14 *may not be counted as accomplishment toward target regardless of the*  
15 *outcome. See Reporting of Wildfire Acres That Meet Resource*  
16 *Management Objectives section below for additional information.*

**17 Reporting of Wildfire Acres That Meet Resource Management Objectives**

18 Acres burned in a wildfire that achieve resource management objectives as  
19 defined in Land and Resource Management Plans/Fire Management Plans  
20 (LRMP/FMP) will be reported in the NFPORS Non-National Fire Plan (Non-  
21 NFP) module. While strategies for managing individual wildfires are established  
22 through the fire management decision process, the identification of acres which  
23 achieved LRMP/FMP objectives should be made after the fire is declared out,  
24 regardless of the fire management objective, strategy or tactic used (e.g., even  
25 though a wildfire strategy may be full suppression, the effects of a wildfire on  
26 resources may be beneficial). The determination of benefit must be based on  
27 land management objectives which are affected by fire severity, intensity, and  
28 other fire impacts. Post-fire impact, such as invasion of exotic species and the  
29 need for rehabilitation, should be considered in this determination. At a  
30 minimum, acres reported in the Non-NFP module must meet the following  
31 criteria:

- 32 • The LRMP/FMP supports attainment of resource benefit through use of  
33 fire;
- 34 • An interdisciplinary approach is used to determine whether the LRMP/FMP  
35 objectives were met; and
- 36 • Line manager approves the determination.
  - 37 ○ *FWS – Reporting will take place in FMIS, not in the NFPORS Non-*  
38 *National Fire Plan module. Reference FMIS User Guide at*  
39 *<https://fishnet.fws.doi.net/regions/9/mwrs/fire/FMR/FMIS1>.*
  - 40 ○ *FS – Direction for reporting accomplishments from unplanned*  
41 *ignitions is found in the Hazardous Fuels Reduction Treatments*  
42 *Tracking and Accomplishments Reporting Requirements document*

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1 *posted on the FACTS support page at*  
2 *<http://fsweb.fcol.wo.fs.fed.us/frs/facts/support/documents/index.shtml>.*

### 3 **Prescribed Fire During Preparedness Levels 4 and 5**

4 Approval at the Regional or State Office level is required prior to ignition of  
5 prescribed fires at National Preparedness Levels 4 and 5. Approving officials  
6 should consider relative risks and opportunities as well as availability of local  
7 resources to implement without the need for additional outside resources that  
8 could add additional strain on resource availability nationally. To limit the  
9 potential for mixed messages when at GACC or National Preparedness Levels 4  
10 and 5, agencies should coordinate information on planned implementation of  
11 prescribed fires with interagency partners at the local, GMAC and NMAC  
12 levels.

- 13 • *BLM – The State Director or designee will approve prescribed fire at*  
14 *National or Geographic Area Preparedness Level 4 or 5.*
- 15 • *NPS – At National Preparedness Level 4 or 5, concurrence from NPS*  
16 *Branch of Fire Management must be obtained prior to implementing*  
17 *prescribed fires. At Geographic Area Preparedness Level 4 or 5, NPS*  
18 *Regional Fire Management concurrence must be obtained prior to*  
19 *implementing prescribed fires.*
- 20 • *FWS – During Geographic Area Preparedness Level 4 or 5, written*  
21 *concurrence from RFMC is required prior to ignition. During National*  
22 *Preparedness Level 5, concurrence from Headquarters, Branch of Fire*  
23 *Management must be obtained prior to ignition, utilizing the Preparedness*  
24 *Level 5 Prescribed Fire Concurrence Form. Reference FMH, Chapter 17.*
- 25 • *FS – The Regional Forester will approve or disapprove new prescribed*  
26 *fires or continue existing prescribed fire at National Preparedness Levels 4*  
27 *and 5.*

### 28 **Federal Agencies Assistance**

29 Reference Section VI of the *Interagency Agreement for Wildland Fire*  
30 *Management among the Bureau of Land Management, Bureau of Indian Affairs,*  
31 *National Park Service, Fish and Wildlife Service of the United States*  
32 *Department of The Interior, and the Forest Service of the United States*  
33 *Department of Agriculture, effective 2011-2015.*

34 Agencies will enter into separate agreements for personnel and other resources  
35 provided for planning and implementation of fuels management treatments and  
36 activities. This may or may not result in an exchange of funds subject to the  
37 applicable statutory authority used.

- 38 • *FS – USFS units will make every attempt to establish agreements in*  
39 *advance when planning to utilize resources from cooperating agencies to*  
40 *implement or respond as contingency resources for prescribed fire.*  
41 *However, for prescribed fire activities and exigent circumstances, where an*

1        *agreement was not executed and funds were not obligated prior to*  
2        *commencing work, a ratification may not be necessary if an approved*  
3        *agreement is executed and funds obligated on I-web within 30 calendar*  
4        *days of the start of work. See FSH 1509.11 Chapter 10, Section 15.81.*

5        **Hazard Pay/Environmental Differential for Prescribed Fire**  
6        **Implementation**

7        Current policy is that hazard pay will not be paid for any prescribed fire. Under  
8        certain circumstances, (i.e., low level flight operations), hazard pay or  
9        environmental differential may be warranted. Offices should contact their  
10       servicing personnel office with specific questions.

11       **Non-NWCG Agency Personnel Use on Prescribed Fire**

12       For information regarding use of non-NWCG agency personnel on prescribed  
13       fires, see Chapter 13.

14       **Use of Contractors for Prescribed Fire Implementation**

15       Agencies can contract to conduct all or part of the planning and implementation  
16       of prescribed fire operations and/or all or part of mechanical treatments for fuels  
17       management projects. Contractors must meet NWCG 310-1 qualification  
18       requirements and agency standards for specific skill positions for prescribed fire  
19       operations.

20       If a contractor is actively involved in igniting, holding, or mopping up an agency  
21       prescribed fire, a Contracting Officer's Authorized Representative (COR) or  
22       Project Inspector (PI) will be on site (exceptions can be made for late stage mop  
23       up and patrol) to ensure that the prescribed fire objectives are being met and that  
24       the terms of the contract are adhered to. The Agency Administrator and/or FMO  
25       will determine the qualifications required for the agency representative (COR or  
26       PI).

- 27       • *FS – Contractors must meet requirements for any specific skill positions for*  
28       *prescribed fire operations as described in NWCG PMS 310-1 or FSH*  
29       *5109.17 for positions not found in the PMS 310-1 (e.g., RXB3). Reference*  
30       *FSM 5140.*

31       **Use of AD Pay Plan for Prescribed Fire**

32       Refer to the DOI Administratively Determined (AD) Pay Plan for Emergency  
33       Workers (Casuals) for information regarding the use of emergency workers for  
34       prescribed fire. The DOI AD Pay Plan does not allow for use of Casuals for  
35       mechanical or chemical reduction projects.

36       Forest Service does not have this authority.

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**1 Activation of Contingency Resources**

- 2 In the event contingency resources are activated, sending units should respond  
3 and support the requesting agency immediately.

**4 Non-fire Fuels Management Activities**

- 5 For policy, guidance, and standards for implementation of non-fire fuel  
6 reduction treatments (e.g., mechanical, biological, chemical), refer to agency-  
7 specific policy and direction.

## Chapter 18 Reviews and Investigations

### 3 Introduction

4 Reviews and investigations are used by wildland fire and aviation managers to  
5 assess and improve the effectiveness and safety of organizational operations.

6 Information (other than factual) derived from safety reviews and accident  
7 investigations should only be used by agencies for accident prevention and  
8 safety purposes.

### 9 Multiagency Cooperation

10 Many reviews and investigations involve cooperation between Federal, State,  
11 County, and Municipal Agencies. To comply with each agency's authorities,  
12 policies, and responsibilities, a multiagency review or investigation may be  
13 necessary. A multiagency Delegation of Authority should be provided to outline  
14 roles, responsibilities, and expected deliverables.

15 The Team Leader or delegating official(s) should establish cooperative  
16 relationships with the other agencies involved in the review or investigation to  
17 ensure policies and responsibilities are met. This may involve negotiations,  
18 cooperative agreements, and coordination with the agency Designated Agency  
19 Safety and Health Official (DASHO) or the agency official who signs the  
20 Delegation of Authority.

### 21 Federal Interagency Investigations

22 Close calls or accidents that involve interagency (USFS or DOI) personnel  
23 and/or jurisdiction (e.g., USFS firefighter injured on FWS jurisdictional  
24 wildland fire and vice versa) shall be reviewed or investigated cooperatively and  
25 conducted at the appropriate level as outlined in this chapter.

26 Agency Administrators will ensure that affected agencies are involved  
27 throughout the review/investigation process.

28 When an incident does not meet the serious accident criteria, the affected  
29 Agency Administrators should jointly decide what type and level of  
30 investigation will be conducted based on agency processes outlined in this  
31 chapter. Questions should be addressed to your agency wildland fire safety  
32 program manager.

### 33 Reviews

34 Reviews are methodical examinations of system elements such as program  
35 management, safety, leadership, operations, preparedness, training, staffing,  
36 business practices, budget, cost containment, planning, and interagency or intra-

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1 agency cooperation and coordination. Reviews do not have to be associated with  
 2 a specific incident. The purpose of a review is to ensure the effectiveness of the  
 3 system element being reviewed, and to identify deficiencies and recommend  
 4 specific corrective actions. Established review types are described below and  
 5 include:

- 6 • Preparedness Reviews
- 7 • After Action Reviews
- 8 • Fire and Aviation Safety Team Reviews
- 9 • Safety Assistance Team Visits
- 10 • Aviation Safety and Assistance Team Reviews
- 11 • Large Fire Cost Reviews
- 12 • Individual Fire Reviews
- 13 • Lessons Learned Reviews
- 14 • Rapid Lesson Sharing
- 15 • Declared Wildfire Reviews

16 **Review Types and Requirements**

Type	When Conducted	Delegating or Authorizing Official
Preparedness Review	Annually, or management discretion	Local/State/Region/National
After Action Review	Management discretion	N/A
Fire and Aviation Safety Team Review	As fire activity dictates	Geographic Area Coordinating Group
Safety Assistance Team Visit	As fire activity dictates	Local/State/Region/National
Aviation Safety Assistance Team Review	As aviation activity dictates	State/Regional Aviation Manager or MACG
Large Fire Cost Review	Refer to NWCG Correspondence EB-M-09-003	Agency Director
Individual Fire Review	Management discretion	Local/State/Region/National
Lessons Learned Review	Management discretion	Local/State/Region/National
Rapid Lesson Sharing	Management discretion	N/A
Declared Wildfire Review	See <i>Interagency Prescribed Fire Planning and Implementation Procedures Guide</i> (PMS 484)	See <i>Interagency Prescribed Fire Planning and Implementation Procedures Guide</i> (PMS 484)

**1 Preparedness Reviews**

2 Preparedness Reviews assess fire programs for compliance with established fire  
3 policies and procedures outlined in the current *Interagency Standards for Fire*  
4 *and Fire Aviation Operations* and other pertinent policy documents.

5 Preparedness Reviews identify organizational, operational, procedural,  
6 personnel, or equipment deficiencies, and recommend specific corrective  
7 actions. Interagency Preparedness Review Checklists can be found at  
8 [http://www.nifc.gov/policies/pol\\_ref\\_intgncy\\_prepcheck.html](http://www.nifc.gov/policies/pol_ref_intgncy_prepcheck.html).

**9 After Action Reviews (AAR)**

10 An AAR is a learning tool intended for the evaluation of an incident or project  
11 in order to improve performance by sustaining strengths and correcting  
12 weaknesses. An AAR is performed as soon after the event as possible by the  
13 personnel involved. An AAR should encourage input from participants that is  
14 focused on:

- 15 • What was planned?
- 16 • What actually happened?
- 17 • Why it happened?
- 18 • What can be done the next time?

19 An AAR is a tool that leaders and units can use to get maximum benefit from  
20 the experience gained on any incident or project. When possible, the leader of  
21 the incident or project should facilitate the AAR process. However, the leader  
22 may choose to have another person facilitate the AAR as needed and  
23 appropriate. AARs may be conducted at any organizational level. However, all  
24 AARs involve the exchange of ideas and observations, and focus on improving  
25 proficiency. The AAR should not be utilized as an investigational review. The  
26 format can be found in the *Interagency Response Pocket Guide (IRPG)*, PMS  
27 461, NFES 1077. Additional AAR information is available at  
28 [http://www.fireleadership.gov/toolbox/after\\_action\\_review/index.html](http://www.fireleadership.gov/toolbox/after_action_review/index.html).

**29 Fire and Aviation Safety Team (FAST) Reviews**

30 Fire and Aviation Safety Teams assist Agency Administrators during periods of  
31 high fire activity by assessing policy, rules, regulations, and management  
32 oversight relating to operational issues. They can also do the following:

- 33 • Provide guidance to ensure fire and aviation programs are conducted safely;
- 34 • Assist with providing immediate corrective actions;
- 35 • Review compliance with OSHA abatement plan(s), reports, reviews, and  
36 evaluations; and
- 37 • Review compliance with *Interagency Standards for Fire and Fire Aviation*  
38 *Operations*.

39 FAST reviews can be requested through geographic area coordination centers to  
40 conduct reviews at the state/regional and local level. If a more comprehensive

- 1 review is required, a national FAST can be ordered through the National
- 2 Interagency Coordination Center.
- 3 FASTs include a team leader, who is either an Agency Administrator or fire
- 4 program lead with previous experience as a FAST member, a safety and health
- 5 manager, and other individuals with a mix of skills from fire and aviation
- 6 management.
- 7 FASTs will be chartered by their respective Geographic Area Coordinating
- 8 Group (GACG) with a Delegation of Authority, and report back to the GACG.
- 9 FAST reports will include an executive summary, purpose, objectives,
- 10 methods/procedures, findings, recommendations, follow-up actions (immediate,
- 11 long-term, national issues), and a letter delegating authority for the review.
- 12 FAST reports should be submitted to the GACG with a copy to the Federal Fire
- 13 and Aviation Safety Team (FFAST) chair within 30 days. See Appendix L for
- 14 sample FAST Delegation of Authority.
- 15 **Safety Assistance Team (SAT) Visits**
- 16 In addition to FAST reviews, SAT visits emphasize engaging individual
- 17 firefighters, managers, and administrators to grasp potential issues, with a focus
- 18 on firefighting safety fundamentals. SAT visits are not inspections. SATs are
- 19 often ordered when activity within an area escalates rapidly, or when a high
- 20 level of activity has been occurring for a long time. SATs can be single agency
- 21 or interagency in scope and composition.
- 22 The goals of a Safety Assistance Team are to:
- 23 • Assist fire managers and IMTs with site visits with firefighters, fire
- 24 managers, and program leaders.
- 25 • Be service oriented, assisting the local units.
- 26 • Provide early warning of potentially hazardous conditions or situations.
- 27 Direct intervention, circumventing normal chain of command, is authorized
- 28 when necessary; however, the overall objective is to create a work environment
- 29 where the normal operating procedures are responsible for safe practices.
- 30 **Aviation Safety Assistance Team (ASAT) Reviews**
- 31 Refer to Chapter 16 for ASAT information.
- 32 **Large Fire Cost Reviews**
- 33 Information on large fire cost reviews can be found in Chapter 11 (Incident
- 34 Management) and NWCG memorandum EB-M-09-003 at
- 35 <http://www.nwcg.gov/executive-board/correspondence>.

**1 Individual Fire Reviews**

2 Individual fire reviews examine all or part of the operations on an individual  
3 fire. The fire may be ongoing or controlled. These reviews may be local,  
4 state/regional, or national. These reviews evaluate decisions and strategies,  
5 correct deficiencies, identify new or improved procedures, techniques or tactics,  
6 determine cost-effectiveness, and compile and develop information to improve  
7 local, state/regional, or national fire management programs.

**8 Lessons Learned Reviews (LLRs)**

9 The purpose of a LLR is to focus on the near miss events or conditions in order  
10 to prevent potential serious incident in the future. In order to continue to learn  
11 from our near misses and our successes it is imperative to conduct a LLR in an  
12 open, non-punitive manner. LLRs are intended to provide educational  
13 opportunities that foster open and honest dialog and assist the wildland fire  
14 community in sharing lessons learned information. LLRs provide an outside  
15 perspective with appropriate technical experts assisting involved personnel in  
16 identifying conditions that led to the unexpected outcome and sharing findings  
17 and recommendations.

18 A LLR should be tailored to the event being reviewed. The scope of the review  
19 should be commensurate with the severity of the incident. A LLR will not be  
20 substituted for a Serious Accident Investigation (SAI) or Accident Investigation  
21 (AI), should the criteria for either of those be met, but may be used as a  
22 supplement to the SAI or AI.

- 23 • *FS – Facilitated Learning Analysis (FLA) may be used for incidents*  
24 *meeting the AI criteria.*

25 A LLR will be led by a facilitator not involved in the event. A facilitator should  
26 be an appropriate fire management expert who possesses skills in interpersonal  
27 communications, organization, and be unbiased to the event. Personnel involved  
28 in the event will be participants in the review process. Depending upon the  
29 complexity of the event, the facilitator may request assistance from technical  
30 experts (e.g., fire behavior, fire operations, etc.).

31 The LLR facilitator will convene the participants and:

- 32 • Obtain a Delegation of Authority from appropriate agency level. See  
33 Appendix J for a sample LLR Delegation of Authority;
- 34 • Identify facts of the event (and tables maybe helpful in the process) and  
35 develop a chronological narrative of the event;
- 36 • Identify underlying reasons for success or unintended outcomes;
- 37 • Identify what individuals learned and what they would do differently in the  
38 future;
- 39 • Identify any recommendations that would prevent future similar  
40 occurrences;
- 41 • 24- and 72-hour reports may be produced, but are not required; and

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- 1 • Provide a final written report including the above items to the pertinent  
2 Agency Administrator(s) within two weeks of event occurrence unless  
3 otherwise negotiated. Names of involved personnel should not be included  
4 in this report (reference them by position).

5 A copy of the final report will be submitted to the respective agency's national  
6 fire safety lead who will provide a copy to the Wildland Fire Lessons Learned  
7 Center (LLC). E-mail: llcdocsubmit@gmail.com.

- 8 • *FS – The Forest Service has combined the Accident Prevention Analysis*  
9 *(APA) with the Facilitated Learning Analysis (FLA). A guide for the FLA*  
10 *process is available at [http://bit.ly/FLA\\_guide](http://bit.ly/FLA_guide).*

#### 11 **Rapid Lesson Sharing (RLS)**

12 RLS is a type of Lessons Learned Review (LLR) for field personnel to quickly  
13 share lessons with others (usually within 24 hours). RLS can be used to  
14 document and share lessons learned as a result of close calls, minor accidents,  
15 successes, efficient ways of performing work, adaptations, or anything wildland  
16 fire personnel can learn from.

17 To submit or view RLS documents, go to  
18 <http://www.wildfirelessons.net/Resources/RapidLessonSharing>.

#### 19 **Declared Wildfire Reviews**

20 Every prescribed fire resulting in a wildfire declaration will receive an outcome  
21 review. Declared wildfire outcome review direction is found in these agency  
22 documents:

- 23 • *Interagency Prescribed Fire Planning and Implementation Procedures*  
24 *Reference Guide (PMS 484)*
  - 25 ○ *BLM – Refer to FA IM-2014-001.*
  - 26 ○ *NPS – Refer to RM-18, Chapter 7 and 17.*
  - 27 ○ *FWS – Refer to Fire Management Handbook, Chapter 17.*
  - 28 ○ *FS – Refer to FSM 5140.*

29 Declared Wildfire Reviews will be submitted to the Wildland Fire Lessons  
30 Learned Center (LLC) by the agency fuels program lead. Submissions should be  
31 sent to llcdocsubmit@gmail.com.

#### 32 **Investigations**

33 Investigations are detailed and methodical efforts to collect and interpret facts  
34 related to an incident or accident, identify causes (organizational factors, local  
35 workplace factors, unsafe acts), and develop control measures to prevent  
36 recurrence.

- 1 Distinct types of wildland fire incidents and accidents have specific  
2 investigation requirements.

3 **Wildland Fire Incident and Accident Types and Definitions**

- 4 • **Serious Wildland Fire Accident** – An unplanned event or series of events  
5 that resulted in death, injury, occupational illness, or damage to or loss of  
6 equipment or property. For wildland fire operations, a serious accident  
7 involves any of the following:  
8     o One or more fatalities;  
9     o Three or more personnel who are inpatient hospitalized as a direct  
10     result of or in support of wildland fire operations;  
11     o Property or equipment damage of \$250,000 or more; and/or  
12     o Consequences that the Designated Agency Safety and Health Official  
13     (DASHO) judges to warrant a Serious Accident Investigation.  
14 • **Wildland Fire Accident** – An unplanned event or series of events that  
15 resulted in injury, occupational illness, or damage to or loss of equipment or  
16 property to a lesser degree than defined in “Serious Wildland Fire  
17 Accident.”  
18 • **Near-miss** – An unplanned event or series of events that could have  
19 resulted in death, injury, occupational illness, or damage to or loss of  
20 equipment or property but did not.  
21 • **Entrapment** – A situation where personnel are unexpectedly caught in a  
22 fire behavior-related, life-threatening position where planned escape routes  
23 or safety zones are absent, inadequate, or compromised. Entrapment may or  
24 may not include deployment of a fire shelter for its intended purpose.  
25 Entrapment may result in a serious wildland fire accident, a wildland fire  
26 accident, or a near-miss.  
27 • **Burnover** – An event in which a fire moves through a location or overtakes  
28 personnel or equipment where there is no opportunity to utilize escape  
29 routes and safety zones, often resulting in personal injury or equipment  
30 damage.  
31 • **Fire Shelter Deployment** – The removing of a fire shelter from its case and  
32 using it as protection against fire. Fire shelter deployment may or may not  
33 be associated with entrapment.  
34 • **Fire Trespass** – The occurrence of unauthorized fire on agency-protected  
35 lands where the source of ignition is tied to some type of human activity.

## 1 Investigation Types and Requirements

Wildland Fire Event	Investigation Type	Management Level Requiring Notification <sup>1</sup>	Management level that determines review type and authorizes review <sup>2</sup>
Serious Wildland Fire Accident	Serious Accident Investigation (SAI) <i>FS – Coordinated Response Protocol (CRP)</i>	National	National
Wildland Fire Accident	Accident Investigation (AI) <i>FS/NPS – FLA may be used</i>	<i>BLM/NPS – National</i> <i>FS/FWS – Management Discretion</i>	Region/State/Local
Entrapment/ Burnover	SAI, AI, LLR, depending on severity	National	National
Fire Shelter Deployment	SAI, AI, LLR, depending on severity	National	National
Near-miss	LLR, AAR	Management Discretion	Region/State/Local
Fire Trespass	Fire Cause Determination and Trespass Investigation	Local	Local

2 <sup>1</sup> In the event that a wildland fire entrapment or fatality occurs, immediate notification to  
3 NICC is required. A *Wildland Fire Entrapment/Fatality Initial Report* (PMS 405-1)  
4 should be completed and mailed to NICC electronically or by fax machine within 24  
5 hours. Submit this report even if some data is missing. The PMS 405-1 is located at the  
6 NWCG Website and the NICC website.

7 <sup>2</sup> Higher level management may exercise their authority to determine the type of review  
8 or investigation.

- 9 • **BLM** – *BLM accidents that involve fire and aviation employees or*  
10 *equipment will be investigated according to the requirements stated in this*  
11 *chapter. Investigations will occur regardless of land jurisdiction. Facts will*  
12 *be collected, causes (organizational factors, local workplace factors, unsafe*  
13 *acts) identified, and an accident investigation report produced. The report*  
14 *will include recommended corrective actions and control measures. Report*  
15 *issuance and follow-up will be through established command channels.*  
16 *BLM Agency Administrators may jointly delegate authority to investigate*  
17 *accidents in cases of mixed jurisdiction or employee involvement. Joint*  
18 *delegations must ensure that BLM investigation requirements are met. The*  
19 *Facilitated Learning Analysis (FLA) process may be used as a*  
20 *supplemental element to required BLM accident investigation processes.*

- 1 • *FS – Forest Service Line Officers are the deciding officials regarding what*  
2 *type of accident investigation or analysis method is to be used for accidents*  
3 *or near misses occurring under Forest Service jurisdiction. FLAs are a type*  
4 *of Lessons Learned Review.*

## 5 Investigation Processes

### 6 Processes Common to All Wildland Fire Accident Investigations

- 7 • **Site Protection** – The site of the incident should be secured immediately  
8 and nothing moved or disturbed until the area is photographed and visually  
9 reviewed by the investigation team. Exact locations of injured personnel,  
10 entrapments, injuries, fatalities, and the condition and location of personal  
11 protective equipment, property, and other equipment must be documented.
- 12 • **Management of Involved Personnel** – Treatment, transport, and follow-up  
13 care must be immediately arranged for injured and involved personnel. The  
14 Agency Administrator or delegate should develop a roster of involved  
15 personnel and supervisors and ensure they are available for interviews by  
16 the investigation team. The Agency Administrator should consider relieving  
17 involved supervisors from fireline duty until the preliminary investigation  
18 has been completed. Attempt to collect initial statements from the involved  
19 individuals prior to a Critical Incident Stress Management (CISM) session.
- 20 • **Delegation of Authority** – A Delegation of Authority shall be issued to the  
21 investigation team leader. The Delegation of Authority will outline roles,  
22 responsibilities, and expected deliverables. Delegation of Authority  
23 templates are available at  
24 [http://www.nifc.gov/safety/safety\\_reptsInvest.html](http://www.nifc.gov/safety/safety_reptsInvest.html).
- 25 • **Critical Incident Stress Management (CISM)** – CISM is the  
26 responsibility of local Agency Administrators, who should have individuals  
27 pre-identified for critical incident stress debriefings. Also refer to the  
28 *Agency Administrator's Guide to Critical Incident Management (PMS 926)*,  
29 available at <http://www.nwcg.gov/publications/926>. Individuals or teams  
30 may be available through Employee Assistance Programs (EAPs) or  
31 Geographic Area Coordination Centers (GACCs).

### 32 Wildland Fire Serious Accident Investigation (SAI) Process

- 33 For interagency serious accident investigations, a multi-agency delegation of  
34 authority to conduct the investigation may be issued. The delegation will ensure  
35 that the investigation meets the policy requirements of involved agencies.
- 36 • **BLM/FWS** – *The Interagency Serious Accident Investigation Guide*  
37 *establishes core direction for BLM, FWS, and interagency serious accident*  
38 *investigations (exceptions for aviation accidents are stated in the guide). It*  
39 *provides serious accident investigation teams a standardized and*  
40 *comprehensive process for conducting serious accident investigations. The*  
41 *guide is available at [http://www.nifc.gov/safety/safety\\_reptsInvest.html](http://www.nifc.gov/safety/safety_reptsInvest.html).*

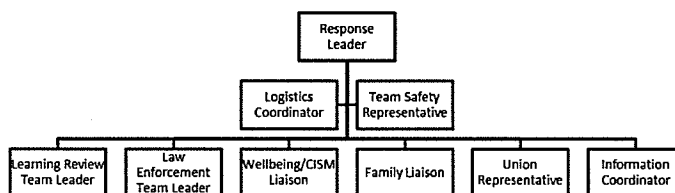
- 1     *Serious accident investigation reports will be completed, routed, and*  
2     *disseminated according to processes established in the guide. Reports may*  
3     *contain information supplemental to the requirements of the guide if it*  
4     *augments the BLM's ability to learn and to develop further improvements.*
- 5     *The guide may be used entirely or in part for accidents that do not meet the*  
6     *serious accident definition.*
- 7     • **FS – Coordinated Response and Learning Review (CRP/LR) – How the**  
8     **USFS will Respond to Serious Accidents**
- 9     *A Coordinated Response Protocol (CRP) has been developed to coordinate*  
10    *the multiple reports and services needed following a serious accident. The*  
11    *CRP placed people first and is designed to coordinate internal and external*  
12    *investigations in a way that minimizes the exposure of our personnel (as*  
13    *much as possible) to a large number of interviews. The CRP also*  
14    *coordinates or oversees organizational support to the victims and their*  
15    *families to ensure that immediate needs are met and that benefits are*  
16    *received in a timely manner. The CRP coordinates or facilitates the*  
17    *Learning Review Team, Peer Support/Critical Incident Stress Management,*  
18    *Law Enforcement Investigations, Union Representation, and Human*  
19    *Resources support.*
- 20    *The Learning Review is a Phased approach that is designed to gather*  
21    *information in a way that is respectful and as complete as possible. The*  
22    *"Inquiry Phase" is designed to collect individual perceptions and to*  
23    *present them in a format that avoids judgment of action. It is of particular*  
24    *interest to understand the context in which decisions and actions were*  
25    *made. The LR recognizes that the traditional report serves as a starting*  
26    *point for learning from the event. While all reports will be available on line,*  
27    *a stated goal of the LR is to create a report for leadership so they will be*  
28    *able to make informed decisions regarding systemic change and a field*  
29    *product, designed to enhance the ability to learn based on scenarios,*  
30    *sensemaking and facilitated dialogue.*
- 31    *Forest Service directives and guidelines regarding the investigation of*  
32    *serious employee injuries and fatalities establish specific roles for the*  
33    *Office of Safety and Occupational Health (OSOH) and Law Enforcement*  
34    *and Investigations (LEI) staffs<sup>1</sup>. There is a requirement to conduct a claims*  
35    *investigation for any fatality or serious injury, and there is inherent value in*  
36    *conducting a Learning Review. To ensure that these potentially disparate*  
37    *roles are fulfilled, the following interim guidance is provided:*
- 38    *1. The Special Agent in Charge (SAC) and the appropriate*  
39    *Region/Station/Area Safety Manager will be notified immediately of*  
40    *incidents meeting the threshold for a Coordinated Response, who will*  
41    *report them to the Designated Agency Safety and Health Official (DASHO),*  
42    *the Director of LEI, and the Director of OSOH. This notification will*

engage a scalable coordinated response, the Coordinated Response Protocol (CRP). This protocol is designed as a collaborative effort that places the wellbeing of our personnel as the top priority.

2. The SAC will assume responsibility for site security, and through coordination with the Director of LEI, will conduct a preliminary incident review. The review will be completed as soon as possible, and in most cases within 72 hours. If there is no indication of criminal wrongdoing, the event will be turned over to the Response Leader (formerly named the Team Leader). If at any time during the CRP there is a reasonable indication that a criminal investigation is warranted, the Response Leader and Directors of LEI and OSOH will confer with the DASHO regarding how to proceed with the CRP.

3. The CRP Team may include the members listed in the following diagram. The role of each team member is fully explained in the CRP Guide.

#### Response Team Structure



4. CRP Team Leaders will coordinate their efforts with the Response Leader and strive to minimize traumatic impacts of the Learning Review and claims investigation on all the employees involved.

5. For every Forest Service accident in which the potential for a claim against the federal government exists, the CRP Team will coordinate the Learning Review and a claims investigation. OOL will conduct the Learning Review. LEI will conduct a claims investigation and complete the required report.

6. In cases involving National Transportation Safety Board (NTSB), the designated NTSB Investigator in Charge (IIC) will determine party status, which includes the USFS participation in the investigative process. For some aviation accidents, the IIC may rely solely on party members to collect and supply information for the NTSB report without actually being on the accident scene. The NTSB prohibits law enforcement involvement with their accident investigations and is mandated to refer any suspicion of illegal activity to the FBI for investigation.

<sup>1</sup> These roles are delineated in the Law Enforcement Manual at Forest Service Manual (FSM) 5303.11, the Service Wide Claims Management Handbook at Forest Service Handbook (FSH) 6509.11h, the Coordinated Response Protocol Guide, and FSH 6709.12.

**1 Fire Director Responsibilities**

2 The Fire Director(s) or designee(s) of the lead agency, or agency responsible for  
3 the land upon which the accident occurred, will:

- 4 • Ensure the agency safety manager and Designated Agency Safety and  
5 Health Official (DASHO) have been notified;
- 6 • Immediately appoint, authorize (through Delegation of Authority), and  
7 deploy an accident investigation team;
- 8 • Provide resources and procedures adequate to meet the team's needs;
- 9 • Receive the factual and management evaluation reports and take action to  
10 accept or reject recommendations;
- 11 • Forward investigation findings, recommendations, and corrective action  
12 plan to the DASHO (the agency safety office is the "office of record" for  
13 reports);
- 14 • Convene an accident review board/ board of review (if deemed necessary)  
15 to evaluate the adequacy of the factual and management reports and suggest  
16 corrective actions;
- 17 • Ensure a corrective action plan is developed, incorporating management  
18 initiatives established to address accident causal factors; and
- 19 • Ensure Serious Accident Investigations remain independent of other  
20 investigations.

**21 Agency Administrator Responsibilities**

- 22 • Develop local preparedness plans to guide emergency response.
- 23 • Identify agencies with jurisdictional responsibilities for the accident.
- 24 • Provide for and emphasize treatment and care of survivors.
- 25 • Ensure the Incident Commander secures the accident site.
- 26 • Conduct an in-briefing to the investigation team.
- 27 • Facilitate and support the investigation as requested.
- 28 • Determine need and implement Critical Incident Stress Management  
29 (CISM).
- 30 • Notify home tribe leadership in the case of a Native American fatality.
- 31 • Prepare and issue the required 24-Hour Preliminary Report unless formally  
32 delegated to another individual.

**33 Notification**

34 Agency reporting requirements will be followed. As soon as a serious accident  
35 is verified, the following groups or individuals should be notified:

- 36 • Agency Administrator;
- 37 • Public affairs;
- 38 • Agency Law Enforcement;
- 39 • Safety personnel;
- 40 • County sheriff or local law enforcement as appropriate to jurisdiction;

- 1 • National Interagency Coordination Center (NICC) through the local
- 2 dispatch center and GACC. Provide a *Wildland Fire Entrapment/Fatality*
- 3 *Initial Report* (PMS 405-1) directly to NICC within 24 hours;
- 4 • Agency headquarters; and
- 5 • OSHA (within 8 hours if the accident resulted in one or more fatalities or if
- 6 three or more personnel are inpatient hospitalized).

7 Notification to the respective agency's fire national safety/risk management lead  
8 is required.

9 **Designating the Investigation Team Lead**

10 The 1995 Memorandum of Understanding (MOU) between the U.S. Department  
11 of the Interior and the U.S. Department of Agriculture states that serious  
12 wildland fire-related accidents will be investigated by interagency investigation  
13 teams.

14 The *Memorandum of Agreement (MOA) between Department of Agriculture*  
15 *Forest Service and Department of Interior* augments and provides clarification  
16 to the 1995 MOU for investigation type and team lead/deputy team  
17 lead/interagency representative designation. The MOA also provides an  
18 interagency template for joint delegation of authority. The MOA is available at  
19 [http://www.nifc.gov/safety/safety\\_reptsInvest.html](http://www.nifc.gov/safety/safety_reptsInvest.html).

20 Following initial notification of a serious accident, the agency DASHO will  
21 designate a Serious Accident Investigation Team Lead(s) and provide that  
22 person(s) with a written Delegation of Authority to conduct the investigation  
23 and the means to form and deploy an investigation team.

- 24 • **BLM/NPS/FWS** – *The agency DASHOs have delegated this responsibility*  
25 *to the respective agency Fire Directors.*
- 26 • **BLM** – *The Fire and Aviation Directorate Safety Program Manager*  
27 *mobilizes SAI teams in coordination with the SAI Team Leader.*

28 Accidents involving more than one agency will require a collaboratively  
29 developed Delegation of Authority that is signed by each of the respective  
30 agencies.

31 **Serious Accident Investigation Team (SAIT) Composition**

32 SAIT members should not be affiliated with the unit that sustained the accident.

- 33 • **Team Leader (Core Team Member)**  
34 A senior agency management official, at the equivalent associate/assistant  
35 regional/state/area/division director level. The team leader will direct the  
36 investigation and serve as the point of contact to the Designated Agency  
37 Safety and Health Official (DASHO).



- 1 • **Chief Investigator (Core Team Member)**  
2 A qualified accident investigation specialist is responsible for the direct  
3 management of all investigation activities. The chief investigator reports to  
4 the team leader.
  - 5 • **Accident Investigation Advisor/Safety Manager (Core Team Member)**  
6 An experienced safety and occupational health specialist or manager who  
7 acts as an advisor to the team leader to ensure that the investigation focus  
8 remains on safety and health issues. The accident investigation  
9 advisor/safety manager also works to ensure strategic management issues  
10 are examined. Delegating Officials or their designee may, at their  
11 discretion, fill this position with a trained and qualified NWCG Safety  
12 Officer, Line (SOFR), Safety Officer, Type 2 (SOF2), or Safety Officer,  
13 Type 1 (SOF1).
  - 14 • **Interagency Representative**  
15 An interagency representative will be assigned to every fire-related Serious  
16 Accident Investigation Team. They will assist as designated by the team  
17 leader and will provide outside agency perspective. They will assist as  
18 assigned by the Team Leader and will provide a perspective from outside  
19 the agency.
  - 20 • **Technical Specialists**  
21 Personnel who are qualified and experienced in specialized occupations,  
22 activities, skills, and equipment, addressing specific technical issues such as  
23 specialized fire equipment, weather, and fire behavior.
  - 24 • **Public Affairs Officer**  
25 For investigations with high public visibility and significant news media  
26 interest, a public affairs officer (PAO) should be considered a part of the  
27 team. The PAO should develop a communications plan for the team, be a  
28 designated point of contact for news media, and oversee all aspects of  
29 internal and external communications. Ideally, the PAO should be qualified  
30 as a Type 1 or Type 2 public information officer and be familiar with SAI  
31 team organization and function.
    - 32 ○ *BLM – All media related documents (news releases, talking points,*  
33 *etc.) should be cleared through NIFC Public Affairs prior to external*  
34 *release.*
- 35 Core SAI members are required to take the Interagency Serious Accident  
36 Investigation Course 1112-05 prior to serious accident investigation assignment.  
37 This training is also required every 5 years for recurrency.
- 38 • *BLM/FWS/FS – This training is required every 5 years to retain currency.*
- 39 **SAI 24- and 72-Hour Reports**  
40 Final 24- and 72-hour reports will be approved by the SAI delegating official,  
41 then sent to the agency fire safety/risk management lead who will provide a  
42 copy to the Wildland Fire Lessons Learned Center (LLC). E-mail:  
43 llcdocsubmit@gmail.com.

- 1 • **24-Hour Preliminary Report** – This report contains known basic facts  
2 about the accident. It will be completed and forwarded by the responsible  
3 Agency Administrator to the SAI delegating official. Names of injured  
4 personnel will not be included in this report. Personnel may be referenced  
5 by position.
- 6 • **72-Hour Expanded Report** – This report provides additional factual  
7 information, if available. The information may include the number of  
8 victims and severity of injuries. The focus should be on information that  
9 may have immediate impact on future accident prevention. This report will  
10 be completed and forwarded by the SAI team to the SAI delegating official.  
11 Names of injured personnel will not be included in this report. Personnel  
12 may be referenced by position.
- 13 **SAI Final Report**  
14 Within 45 days of the incident, a final report consisting of a Factual Report (FR)  
15 and a Management Evaluation Report (MER) will be produced by the  
16 investigation team to document facts, findings, and recommendations and  
17 forwarded to the Designated Agency Safety and Health Official (DASHO)  
18 through the agency Fire Director(s).
- 19 • **Factual Report** – This report contains a brief summary or background of  
20 the event, and facts based only on examination of technical and procedural  
21 issues related to equipment and tactical fire operations. It does not contain  
22 opinions, conclusions, or recommendations. Names of injured personnel are  
23 not to be included in this report (reference them by position). Post-accident  
24 actions should be included in this report (emergency response attribute to  
25 survival of a victim, etc).
- 26 Factual Reports will be submitted to Wildland Fire Lessons Learned Center  
27 (LLC) by the respective agency's fire safety/risk management leads. E-mail:  
28 llcdocsubmit@gmail.com.
- 29 • **Management Evaluation Report (MER)** – The MER is intended for  
30 internal use only and explores management policies, practices, procedures,  
31 and personal performance related to the accident. The MER categorizes  
32 findings identified in the factual report and provides recommendations to  
33 prevent or reduce the risk of similar accidents.
- 34 Factual Report and Management Evaluation Report formatting can be found on  
35 the NIFC website at [http://www.nifc.gov/safety/safety\\_reprtsInvest.html](http://www.nifc.gov/safety/safety_reprtsInvest.html).
- 36 **Accident Review Board/Board of Review**  
37 An Accident Review Board/Board of Review is used by some agencies to  
38 evaluate recommendations, and develop a corrective action plan. Refer to the  
39 respective agency's Safety and Health policy.

**1 Wildland Fire Accident Investigation (AI) Process**

2 Accident investigations and reports should be commensurate with the  
3 complexity and/or severity of the accident. Investigations and reports may range  
4 from large investigation teams producing comprehensive reports to first-level  
5 supervisors initiating investigations and reporting injury/property damage in  
6 agency reporting systems.

**7 Notification**

8 When an accident occurs, agency notification requirements will be followed.

9 Notification requirements universally include:

- 10 • Local dispatch center
- 11 • Unit Fire Management Officer
- 12 • Agency Administrator
- 13 • OSHA (refer to Chapter 7 for reporting criteria)

**14 Investigation Team Membership**

15 Investigation team membership should be commensurate with the complexity  
16 and/or severity of the accident. An investigation team should consist of a team  
17 leader and an adequate number of technical specialists and subject matter  
18 experts. For complex investigations, team membership may also include a chief  
19 investigator, a safety advisor/manager, and additional technical specialists, and a  
20 writer/editor. Team members may have dual roles (e.g., chief investigator/safety  
21 advisor).

**22 Investigation Methodology**

23 Accident Investigations (AI) are detailed and methodical efforts to collect and  
24 interpret facts related to an accident and to provide specific recommendations to  
25 prevent recurrence. The AI should include the following actions:

- 26 • Visual inspection of involved site, equipment, or material;
- 27 • Detailed analysis of equipment or material, as necessary;
- 28 • Interviews with involved personnel, witnesses, managers, and other  
29 pertinent persons;
- 30 • Collection and review of written statements;
- 31 • Review of records, archives, plans, policies, procedures, and other pertinent  
32 documents;
- 33 • Consideration of environmental, equipment, material, procedural, and  
34 human factors as they related to the incident; and
- 35 • Development of specific findings and related recommendations for the AI  
36 report.

**37 Accident Investigation 24- and 72-Hour Reports**

38 24- and 72-hour reports should be completed when a formal AI will be  
39 conducted. Final 24- and 72-hour reports will be approved by the AI delegating  
40 official, then sent to the agency fire safety/risk management lead who will

- 1 provide a copy to the Wildland Fire Lessons Learned Center (LLC). E-mail:  
2 llcdocsubmit@gmail.com.
- 3 • **24-Hour Preliminary Report** – This report contains known basic facts  
4 about the accident. It will be completed and forwarded by the responsible  
5 Agency Administrator to the next higher level (e.g., District Manager  
6 forwards to State Director). Names of injured personnel will not be included  
7 in this report. Personnel may be referenced by position.
  - 8 • **72-Hour Expanded Report** – This report provides additional factual  
9 information, if available. The information may include the number of  
10 victims and severity of injuries. The focus should be on information that  
11 may have immediate impact on future accident prevention. This report will  
12 be completed and forwarded by the AI team to the AI delegating official.  
13 Names of injured personnel will not be included in this report. Personnel  
14 may be referenced by position.

15 **Accident Investigation Final Report**

16 Within 45 days of the accident, a final report including facts, findings, and  
17 recommendations shall be submitted to the senior manager dependent upon the  
18 level of investigation (e.g., local Agency Administrator, State/Regional Director,  
19 and Agency Fire Director or their designee). If a lower level investigation is  
20 conducted, a courtesy copy of the final report shall be sent to the respective  
21 agency's national fire safety/risk management lead.

22 The Final Report (minus names of employees—they should be referenced by  
23 position) will be submitted to Wildland Fire Lessons Learned Center (LLC) by  
24 the respective agency's National Fire Safety Leads. E-mail:  
25 llcdocsubmit@gmail.com.

26 **Accident Investigation Report Standard Contents**

- 27 • **Executive Summary** – A brief narrative of the facts involving the accident  
28 including dates, locations, times, name of incident, jurisdiction(s), number  
29 of individuals involved, etc. Names of injured personnel or personnel  
30 involved in the accident are not to be included in this report (reference them  
31 by position).
- 32 • **Narrative** – A detailed chronological narrative of events leading up to and  
33 including the accident, as well as rescue and medical actions taken after the  
34 accident. This section will contain who, what, and where.
- 35 • **Investigation Process** – A brief narrative of actions taken by the  
36 investigation team. This narrative should include investigation team  
37 membership, Delegation of Authority information (from who and contents,  
38 include a copy as an appendix), investigative actions and timeline (when the  
39 team conducted interviews, inspections, site visits, etc.), and if other sources  
40 were consulted (i.e., professional accident reconstruction experts,  
41 equipment manufacturers, etc.). This section should also address if  
42 environmental, equipment, material, procedural, and human factors were  
43 present, and state how findings/recommendations were developed.

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1 • **Findings/Recommendations**

- 2 ○ **Findings** – Developed from the factual information. Each finding is a  
3 single event or condition. Each finding is an essential step in the  
4 accident sequence, but each finding is not necessarily causal or  
5 contributing, and each finding may not have an associated  
6 recommendation. Findings should only include information necessary  
7 to explain the specific event or condition. Findings must be  
8 substantiated by the factual data. Findings should not include opinion  
9 or speculation.
- 10 ○ **Discussion** – This provides explanation or information pertinent to a  
11 specific finding.
- 12 ○ **Recommendations** – Recommendations are proposed actions intended  
13 to prevent similar accidents. Recommendations should be directly  
14 related to findings, should not contain opinion or speculation, and when  
15 appropriate, should identify the specific organization responsible for  
16 completing the recommended action. Recommendations will be  
17 evaluated and may be incorporated into future operational direction  
18 through established processes.
- 19 • **Conclusions and Observations** – Investigation team’s opinions and  
20 inferences, and “lessons learned” may be captured in the section. This  
21 section is not required.
- 22 • **Reference Materials**
- 23 ○ **Maps/Photographs/Illustrations** – Graphic information used to  
24 document and visually portray facts.
- 25 ○ **Appendices** – Reference materials (e.g., fire behavior analysis,  
26 equipment maintenance reports, agreements).

27 An AI Delegation of Authority template, AI report template and examples of AI  
28 reports can be found at the NIFC Safety website  
29 [http://www.nifc.gov/safety/safety\\_reptsInvest.html](http://www.nifc.gov/safety/safety_reptsInvest.html).

30 **Fire Cause Determination and Trespass Investigation**

31 **Introduction**

32 Agency policy requires determination of cause, origin, and responsibility for all  
33 wildfires. Accurate fire cause determination is a critical first step for a  
34 successful fire investigation and for targeting fire prevention efforts. Proper  
35 investigative procedures, which occur concurrent with initial attack, more  
36 accurately pinpoint fire causes and can preserve valuable evidence that would  
37 otherwise be destroyed by suppression activities. Fire trespass refers to the  
38 occurrence of unauthorized fire on agency-protected lands where the source of  
39 ignition is tied to some type of human activity.

40 **Policy**

41 The agency must pursue cost recovery, or document why cost recovery is not  
42 required, for all human-caused fires on public lands. The agency will also pursue

- 1 cost recovery for other lands under fire protection agreement where the agency  
2 is not reimbursed for suppression actions, if so stipulated in the agreement.
- 3 For all human-caused fires where negligence can be determined, trespass actions  
4 are to be taken to recover cost of suppression activities, land rehabilitation, and  
5 damages to the resource and improvements. Only fires started by natural causes  
6 will not be considered for trespass and related cost recovery.
- 7 The determination whether to proceed with trespass action must be made on  
8 “incident facts,” not on “cost or ability to pay.” Trespass collection is both a cost  
9 recovery and a deterrent to prevent future damage to public land. It is prudent to  
10 pursue collection of costs, no matter how small. This determination must be  
11 documented and filed in the unit office’s official fire report file.
- 12 The Agency Administrator has the responsibility to bill for the total cost of the  
13 fire and authority to accept only full payment. On the recommendation of the  
14 State/Regional Director, the Solicitor/Office of General Counsel may  
15 compromise claims of the United States, up to the monetary limits (\$100,000)  
16 established by law 31 U.S.C. 3711[a], 4 CFR 103-104, and 205 DM 7.1 and 7.2.  
17 The Solicitor/Office of General Counsel will refer suspension or termination of  
18 the amount, in excess of \$100,000, exclusive of interest, penalties, or  
19 administrative charges, to the Department of Justice.
- 20 Unless specified otherwise in an approved protection agreement, the agency that  
21 has the land management jurisdiction/administration role is accountable for  
22 determining the cause of ignition, responsible party, and for obtaining all  
23 billable costs, performing the billing, collection, and distribution of the collected  
24 funds. The agency with the fire protection responsibility role must provide the  
25 initial determination of cause to the agency with the land management  
26 jurisdiction/administration role. The agency providing fire protection shall  
27 provide a detailed report of suppression costs that will allow the jurisdictional  
28 agency to proceed with trespass procedures in a timely manner.
- 29 Each agency’s role in fire trespass billing and collection must be specifically  
30 defined in the relevant Cooperative Fire Protection Agreement. The billing and  
31 collection process for federal agencies is:
- 32 • For example, a federal agency fire occurs on another federal agency’s land  
33 and is determined to be a trespass fire. BLM provides assistance, and  
34 supplies costs of that assistance to the federal agency with jurisdictional  
35 responsibility for trespass billing. The responsible federal agency bills and  
36 collects trespass, and BLM then bills the federal agency and is reimbursed  
37 for its share of the collection.
  - 38 • For example, where BLM administered land is protected by a state agency,  
39 the billing and collection process is:

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- 1       ○ The state bills BLM for their suppression costs. The BLM will pursue  
2       trespass action for all costs, suppression, rehabilitation, and damages,  
3       and deposits the collection per BLM's trespass guidance.
- 4   Initiation of fire cause determination must be started with notification of an  
5   incident. Initial attack dispatchers are responsible for capturing all pertinent  
6   information when the fire is reported and throughout the incident. The initial  
7   attack Incident Commander and the initial attack forces are responsible for  
8   initiating fire cause determination and documenting observations starting with  
9   their travel to the fire. If probable cause indicates human involvement, an  
10   individual qualified in fire cause determination (INVF or cooperator equivalent)  
11   should be dispatched to the fire.
- 12   Agency references:
- 13   • *BLM – 9238-1*
  - 14   • *NPS – RM-18, Chapter 6 and RM-9*
  - 15   • *FWS – Fire Management Handbook*
  - 16   • *FS – FSM 5130 and FSM 5300*

#### 17   **Related Policy Documents**

18   These documents provide specific direction related to incident and accident  
19   investigations.

	Safety	Prescribed Fire
DOI	485 DM Chapter 7	
BLM	Manual 1112-2, 1112-1	
NPS	DO/RM-50B, RM-18 Chapter 3	RM-18, Chapter 7
FWS	Service Manual 095	
FS	FSH-6709.11	FSM-5140
	FSM-5100 and FSH-6709.11, FSM 5720 (Aviation), FSM 5130 (Ground Operations), FSM 6730 (Specific policy), FSH 6709.12 Chapter 30 (General guidance), and most recent Accident Investigation Guide, for specific guidance.	Same as Safety
Interagency	Information on accident investigations may be found at <a href="http://www.nifc.gov/safety/safety_reportsInvest.html">http://www.nifc.gov/safety/safety_reportsInvest.html</a> . For reporting use PMS 405-1, <i>Wildland Fire Fatality and Entrapment Initial Report</i> , on the NWCG website.	Same as Safety

## Chapter 19 Dispatch and Coordination System

### 3 Introduction

The primary mission of the national dispatch/coordination system is the timely, cost-effective, and efficient coordination, mobilization, and demobilization of wildland fire resources. This mission is accomplished at the direction of Agency Administrators and designated fire managers at the local, geographic, and national level and delegated to the Center Manager. Agency Administrators and fire managers are responsible for providing direction to their respective dispatch/coordination centers. The dispatch/coordination system implements the movement of resources in response to the direction as delegated.

Agency Administrators and fire managers will:

- Provide oversight for the development and implementation of dispatch/coordination center plans and operating procedures (e.g., initial response plans, dispatch operating guides/manuals, and mobilization guides) that enable the effective implementation of the fire management plan.
- Through prior planning, provide dispatch with an initial response plan to allocate resources to new incidents under the leadership of the Center Manager or delegated acting.
- Establish priorities for prepositioning and deployment of fire suppression resources based on evaluation of current/predicted fire activity and firefighting resource status and availability, and communicate these priorities to the dispatch/coordination managers through established command channels for implementation.
- Serve as authorized representatives on local, geographic, and national coordinating groups and MAC groups.

Dispatch/Coordination Center Managers will:

- Ensure that dispatch/coordination center decisions and actions are consistent with priorities, established plans, and operating procedures as determined by Agency Administrators and fire managers.
- Implement pre-planned response for allocation of resources to new incidents, pursuant to their delegation from Agency Administrators and designated fire managers.
- Develop and implement dispatch/coordination center plans and operating procedures (e.g., initial response plans, dispatch operating guides/manuals, and mobilization guides) that enable the effective implementation of the fire management plan.



**1 Organization**

2 The wildland fire dispatch and coordination system in the United States has  
3 three levels (tiers):

- 4 • National – National Interagency Coordination Center
- 5 • Geographic – Geographic Area Coordination Centers
- 6 • Local – Local Dispatch Centers

7 Logistical dispatch operations occur at all three levels, while initial attack  
8 dispatch operations occur primarily at the local level. Any geographic area or  
9 local dispatch center using a dispatch system outside the three-tier system must  
10 justify why a non-standard system is being used and request written  
11 authorization from the BLM, FWS, and/or NPS National Office or USFS  
12 Regional Office.

**13 National Interagency Coordination Center (NICC)**

14 The NICC is located at NIFC, in Boise, Idaho. The principal mission of the  
15 NICC is the cost-effective and timely coordination of land management agency  
16 emergency response for wildland fire at the national level. This is accomplished  
17 through planning, situation monitoring, and expediting resource orders between  
18 the BIA Areas, BLM States, National Association of State Foresters, FWS  
19 Regions, FS Regions, NPS Regions, National Weather Service (NWS) Regions,  
20 Federal Emergency Management Agency (FEMA) Regions through the United  
21 States Fire Administration (USFA), and other cooperating agencies.

22 The NICC coordinates any requests for support from foreign countries, either  
23 through Departments of Agriculture and Interior agreements (Canada and  
24 Mexico) or arrangements (Australia and New Zealand), or from the Forest  
25 Service International Programs' Disaster Assistance Support Program (DASP)  
26 through the U.S. Agency for International Development's Office of Foreign  
27 Disaster Assistance.

28 The NICC supports non-fire emergencies when tasked by an appropriate agency,  
29 such as FEMA, through the National Response Framework. The NICC collects  
30 and consolidates information from the GACCs and disseminates the *National*  
31 *Incident Management Situation Report* through the NICC website at  
32 <http://www.nifc.gov/nicc/sitreprt.pdf>.

**33 Geographic Area Coordination Centers (GACCs)**

34 There are 10 GACCs, each of which serve a specific geographic portion of the  
35 United States. Each GACC interacts with the local dispatch centers, as well as  
36 with the NICC and neighboring GACCs. Refer to the *National Interagency*  
37 *Mobilization Guide* for a complete directory of GACC locations, addresses, and  
38 personnel.

1 The principal mission of each GACC is to provide the cost-effective and timely  
2 coordination of emergency response for all incidents within the specified  
3 geographic area. GACCs are also responsible for determining needs,  
4 coordinating priorities, and facilitating the mobilization of resources from their  
5 areas to other geographic areas.

6 **Local Dispatch Centers**

7 Local dispatch centers are located throughout the country as dictated by the  
8 needs of fire management agencies. Local dispatch centers dispatch multi-  
9 agency wildland firefighting resources within a pre-established and identified  
10 dispatch zone boundary. The principal mission of a local dispatch center is to  
11 provide safe, timely, and cost-effective coordination of emergency response for  
12 all incidents within its specified geographic area. This entails the coordination of  
13 initial attack responses and the ordering of additional resources when fires  
14 require extended attack.

15 Local dispatch centers are also responsible for supplying intelligence and  
16 information relating to fires and resource status to their GACC and to their  
17 agency managers and cooperators. Local dispatch centers may work for, or with,  
18 numerous agencies, but should only report to one GACC.

19 Some local dispatch centers are also tasked with law enforcement and agency  
20 administrative workloads for non-wildfire operations. If this is the case, a  
21 commensurate amount of funding and training should be provided by the  
22 benefiting activity to accompany the increased workload. If non-wildfire  
23 workload is generated by another agency operating in an interagency dispatch  
24 center, the agency generating the additional workload should offset this  
25 increased workload with additional funding or personnel.

26 **Mobilization Guides**

27 The NICC and each GACC annually publish a Mobilization Guide. The  
28 Mobilization Guides identify standard procedures which guide the operations of  
29 multi-agency logistical support activity throughout the coordination system.  
30 These guides are intended to facilitate interagency dispatch coordination,  
31 ensuring timely and cost-effective incident support services are provided. Local  
32 and Geographic Area Mobilization Guides supplement the *National Interagency*  
33 *Mobilization Guide*.

34 The *National Interagency Mobilization Guide* (NFES 2092) and links to  
35 Geographic Area Mobilization Guides are available at  
36 <http://www.nifc.gov/nicc/>.

37 **Local Mobilization Guide/Dispatch Operating Plan**

38 Local dispatch centers will have a local mobilization guide or dispatch operating  
39 plan to supplement the GACC and National Mobilization Guides. The

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1 mobilization guide or operating plan will include or provide reference to the  
2 minimum elements and procedures to guide the operation of a local dispatch  
3 center. See Appendix P for minimum required elements and procedures for  
4 inclusion in a local mobilization guide/dispatch operating plan or at  
5 [http://www.nifc.gov/policies/pol\\_intgncy\\_guides.html](http://www.nifc.gov/policies/pol_intgncy_guides.html).

#### 6 **Local and Geographic Area Drawdown**

7 Drawdown is the predetermined number and type of suppression resources that  
8 are required to maintain viable initial attack (IA) capability at either the local or  
9 geographic area. Drawdown resources are considered unavailable outside the  
10 local or geographic area for which they have been identified.

11 Drawdown is intended to:

- 12 • Ensure adequate fire suppression capability for local and/or geographic area  
13 managers; and
- 14 • Enable sound planning and preparedness at all management levels.

15 Although drawdown resources are considered unavailable outside the local or  
16 geographic area for which they have been identified, they may still be  
17 reallocated by the Geographic Area or National MAC to meet higher priority  
18 obligations.

#### 19 **Establishing Drawdown Levels**

20 Local drawdown is established by the local unit and/or the local MAC group and  
21 implemented by the local dispatch office. The local dispatch office will notify  
22 the Geographic Area Coordination Center (GACC) of local drawdown decisions  
23 and actions.

24 Geographic area drawdown is established by the GMAC and implemented by  
25 the GACC. The GACC will notify the local dispatch offices and the National  
26 Interagency Coordination Center (NICC) of geographic area drawdown decision  
27 and actions.

#### 28 **National Ready Reserve (NRR)**

29 NRR is a means by which the NMAC identifies and readies specific categories,  
30 types, and quantities of fire suppression resources in order to maintain overall  
31 national readiness during periods of actual or predicted national suppression  
32 resource scarcity.

33 NRR implementation responsibilities are as follows:

- 34 • NMAC establishes national ready reserve requirements by resource  
35 category, type, and quantity.

- 1 • NICC implements NMAC intent by directing individual GACCs to place
  - 2 specific categories, types, and quantities of resources on national ready
  - 3 reserve.
  - 4 • GACCs direct local dispatch centers and/or assigned IMTs to specifically
  - 5 identify resources to be placed on national ready reserve.
  - 6 • NICC mobilizes national ready reserve assets through normal coordination
  - 7 system channels as necessary.
- 8 National ready reserve resources must meet the following requirements:
- 9 • May be currently assigned to ongoing incidents;
  - 10 • Must be able to demobe and be enroute to new assignment in less than 2
  - 11 hours;
  - 12 • Resources must have a minimum of 7 days left in 14 day rotation
  - 13 (extensions will not be factored in this calculation);
  - 14 • May be assigned to incidents after being designated ready reserve, in
  - 15 coordination with NICC; and
  - 16 • Designated ready reserve resources may be adjusted on a daily basis.
- 17 NMAC will adjust ready reserve requirements as needed. Furthermore, in order
- 18 to maintain national surge capability, the NMAC may retain available resources
- 19 within a geographic area, over and above the established geographic area
- 20 drawdown level.

#### 21 **Dispatch/Coordination Center Administration**

##### 22 **Memorandum of Understanding (MOU)**

- 23 Each dispatch/coordination center will have a Memorandum of Understanding
- 24 (MOU) signed by all cooperators. This MOU will be reviewed and updated
- 25 annually. Dispatch/coordination center MOUs and their associated Annual
- 26 Operating Plans (AOPs) will be current and will define:
- 27 • The roles and responsibilities of each interagency partner's fiscal and
  - 28 infrastructure support responsibilities;
  - 29 • Administrative oversight/support groups involved with the
  - 30 dispatch/coordination center;
  - 31 • Clear fiscal reimbursement procedures and interagency funding procedures;
  - 32 • The dispatch/coordination center's organizational charts;
  - 33 • Communication protocols for local and geographic area cooperating
  - 34 Agencies, including briefings, planned meetings, and conference calls;
  - 35 • Procedures for Incident Management Team mobilization and close-out; and
  - 36 • Supporting documentation, such as any local initial attack or fire and
  - 37 aviation agreements for units serviced by the center.
- 38 Funding for facilities, equipment, and staffing needs shall be identified in each
- 39 participating agency's planning and budget process, and included in the
- 40 MOU/AOP.

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1 **Service and Supply Plans**

2 All local dispatch centers shall maintain a Service and Supply Plan that contains  
3 current copies of procurement documents related to locally available resources.  
4 Service and Supply Plans must be current, complete, organized, and accessible  
5 to Initial Attack and Expanded Dispatchers.

6 The Service and Supply Plan will contain current copies of competitive Incident  
7 Blanket Purchase Agreements (I-BPAs), as well as source lists for incident-only  
8 agreements. Resources and their respective contracts/agreements will be entered  
9 into ROSS if applicable, and naming conventions will meet national standards.

10 For additional required components of a Service and Supply Plan, refer to  
11 Appendix P at [http://www.nifc.gov/policies/pol\\_intgncy\\_guides.html](http://www.nifc.gov/policies/pol_intgncy_guides.html).

12 **Continuity of Operations Plan (COOP)**

13 All centers will maintain a current Continuation of Operations Plan (COOP)  
14 which includes a pre-identified alternate location with adequate supplies,  
15 notification procedures for activation, a back-up computer system, and  
16 contingency plans for loss of telecommunications equipment and/or loss of  
17 access to network connectivity. Additionally, all centers which are required to  
18 maintain communications with field going resources, including aircraft, will  
19 maintain an identified back-up power source and redundancies in  
20 communication systems for a possible loss of radios and/or telecommunications  
21 equipment.

22 **Dispatch/Coordination Center Manager Delegation of Authority**

23 All Dispatch/Coordination Center Managers shall have a signed Delegation of  
24 Authority providing an adequate level of operational authority from all  
25 participating agencies. The Delegation of Authority will include appropriate  
26 supervisory authority, and a process for completion of employee performance  
27 evaluations.

28 The Dispatch/Coordination Center Manager may, where appropriate, complete a  
29 Delegation of Authority for staff that identifies roles and responsibilities for  
30 Acting Center Manager, Coordinator-on-Duty, Floor Supervisor, and/or Internal  
31 Duty Officer.

32 **National Interagency Coordination Center (NICC) Functional**  
33 **Responsibilities**

34 The NICC has established the Coordinator-On-Duty (NICC COD) position. The  
35 NICC COD is responsible for managing the daily operation of the NICC and for  
36 resource allocation decisions in alignment with NMAC direction.

37 The National Interagency Coordination Center (NICC) is responsible for the  
38 following:

- 1 • **Positioning and Movement of Resources**  
2 NICC, in conjunction with the GACCs, is responsible for ensuring a  
3 coordinated response to wildland fire incidents and/or all-hazard incidents  
4 under the National Response Framework or other appropriate authorities.  
5 NICC positions resources (personnel, aircraft, supplies, and equipment) to  
6 meet existing and anticipated incident, preparedness, severity, wildland, and  
7 prescribed fire needs regardless of geographic location or agency affiliation.  
8 NICC coordinates movement of resources across Geographic Area  
9 boundaries. NICC allocates resources according to National Multi-Agency  
10 Coordinating Group (NMAC) direction when competition for wildland fire  
11 resources occurs among Geographic Areas.
- 12 • **Management of National Aviation Resources**  
13 As directed or delegated by NMAC, NICC allocates national resource  
14 aviation assets to the Geographic Areas based upon national priorities.  
15 These national resources include:
  - 16 ○ Federal airtankers
  - 17 ○ Large transport aircraft
  - 18 ○ Modular Airborne Fire Fighting System (MAFFS) Airtankers
  - 19 ○ Type 1 and Type 2 Call-When-Needed (CWN) helicopters
  - 20 ○ Airborne Thermal Infrared (IR) Fire Mapping aircraft
  - 21 ○ Lead planes and Aerial Supervision Modules
- 22 NICC has established authorities and procedures for dispatching aviation  
23 resources. These authorities and procedures include:
  - 24 ○ Aircraft ordering protocols for fire, logistical and administrative flights;
  - 25 ○ Tracking of all aircraft ordered through NICC that cross geographic  
26 area boundaries;
  - 27 ○ Mechanisms for disseminating availability and commitment status  
28 throughout the dispatch/coordination system; and
  - 29 ○ Procedures for mobilization and use of large transport aircraft (NICC is  
30 the sole source for large transport aircraft).
- 31 • **Management of National Support Resources**  
32 NICC mobilizes national support resources such as National Interagency  
33 Radio Support Cache radio systems and kits, Incident Remote Automatic  
34 Weather Stations, Project Remote Automatic Weather Stations, National  
35 Contract Mobile Food Services, and National Contract Mobile Shower  
36 Facilities. Refer to the National Interagency Mobilization Guide for more  
37 information.
- 38 • **Allocation of Other National Resources**  
39 As directed or delegated by the NMAC, NICC mobilizes national program  
40 resources such as National Interagency Buying Teams, Administrative  
41 Payment Teams, Burned Area Emergency Response Teams, and National  
42 Fire Prevention and Education Teams to the Geographic Areas based upon  
43 national priorities. Refer to the National Interagency Mobilization Guide for  
44 more information.

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1 • **Predictive Services and Intelligence**

2 Predictive Services is responsible for providing weather, fuels, and  
3 intelligence products that support the decision-making process at the local,  
4 state/regional, geographic, and national levels. NICC Predictive Services  
5 produces and disseminates (among other products) a monthly/seasonal  
6 outlook that covers the next one to four month period.

7 NICC ensures that procedures are in place for gathering, accessing and  
8 disseminating information, and maintains a current Standard Operating  
9 Procedure that outlines duties and procedures of the Predictive Services  
10 program. NICC is also responsible for maintaining a Predictive Services  
11 and Intelligence website to meet these mission requirements.

12 NICC Predictive Services has identified and maintains open lines of  
13 communication with interagency partners. NICC Predictive Services  
14 ensures that contacts and roles are maintained and understood for the  
15 National Weather Service (NWS), NIFC, NICC, and GACCS. Predictive  
16 Services staff participate in planned briefings, meetings and conference  
17 calls, monthly/seasonal assessments, etc.

18 NICC Predictive Services, in coordination with the NWS, has an Annual  
19 Operating Plan (AOP) that outlines products and services provided by each  
20 office. NICC Predictive Services ensures that provisions within the AOP  
21 that affect local dispatch centers are coordinated with and communicated to  
22 those centers.

23 • **International and Department of Defense Assistance**

24 NICC serves as the focal point for international assistance requested from  
25 NMAC either under existing agreements or by the US Department of State.  
26 NICC also serves as the focal point for any requests for assistance from the  
27 Department of Defense.

28 For more information, see the *National Interagency Mobilization Guide*,  
29 Chapter 40 at <http://www.nifc.gov/nicc/logistics/references.htm>.

30 **Geographic Area Coordination Center (GACC) Functional Responsibilities**

31 The GACCs have established the Coordinator-On-Duty (COD) position. The  
32 COD is responsible for managing the daily operation of the GACC and for  
33 resource allocation decisions in alignment with NMAC direction.

34 Geographic Area Coordination Centers (GACCs) are responsible for the  
35 following:

36 • **Positioning and Movement of Resources**

37 GACCs, in conjunction with NICC and local dispatch centers, are  
38 responsible for ensuring a coordinated response to wildland fire incidents  
39 and/or all-hazard incidents under the National Response Framework or

- 1 other appropriate authorities. GACCs mobilize and position resources  
2 (personnel, aircraft, supplies, and equipment) internally among local  
3 dispatch centers to meet existing and anticipated incident, preparedness,  
4 severity, wildland, and prescribed fire needs, regardless of geographic  
5 location or agency affiliation. GACCs coordinate movement of resources  
6 within Geographic Area boundaries and allocate resources according to  
7 Geographic Area Multi-Agency Coordinating Group (GMAC) direction  
8 when competition for wildland fire resources occurs within the Geographic  
9 Area. GACCs will ensure adequate fire suppression capability for local  
10 and/or Geographic Area managers, and enable sound planning and  
11 preparedness at all management levels.
- 12 Geographic Areas will establish priorities for their incidents and wildland  
13 fires and report them to NICC. GACCs will notify NICC and adjoining  
14 GACCs of the commitment of National Resources within their Area, and  
15 will notify the local dispatch offices and the NICC of Geographic Area  
16 drawdown decision and actions.
- 17 Activities associated with the National Response Framework will be  
18 accomplished utilizing established dispatch coordination procedures. The  
19 affected GACC will coordinate ordering points with Regional Response  
20 Coordination Centers (RRCC) and Joint Field Offices (JFO).
- 21 • **Management of Aviation Resources**  
22 GACCs have established authorities and procedures for dispatching aviation  
23 resources. These procedures include:  
24 ○ Aircraft ordering protocols for fire, logistical and administrative flights;  
25 ○ Procedures for tracking of all aircraft within Geographic Area  
26 boundaries;  
27 ○ Mechanisms for disseminating availability and commitment status  
28 throughout the dispatch/coordination system;  
29 ○ Ordering and operational procedures between the GACC, dispatch  
30 center(s) and airtanker base(s);  
31 ○ Procedures for flight following (including protocols for use of  
32 Automated Flight Following (AFF) and initial call on the National  
33 Flight Following Frequency);  
34 ○ Procedures for ordering and establishing TFR's and operating  
35 guidelines for airspace deconfliction for Military Air Space (MTR,  
36 SUA, MOA) and Restricted Areas. GACCs will participate in planned  
37 airspace meetings annually;  
38 ○ Procedures for ordering and utilization of FAA temporary towers; and  
39 ○ Procedures for reporting through the SAFECOM system.
- 40 • **Predictive Services and Intelligence**  
41 GACC Predictive Services is responsible for providing weather, fuels and  
42 intelligence products that support the decision-making process at the local,  
43 state, geographic and national levels. GACCs provide timely

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- 1 communications on information and decisions that affect the interagency  
2 dispatch community.
- 3 GACCs ensure that procedures are in place for gathering, accessing and  
4 disseminating information, and maintain a current Standard Operating  
5 Procedure that outlines duties and procedures of the Predictive Services  
6 program. GACCs are also responsible for maintaining a Predictive Services  
7 and Intelligence website to meet these mission requirements.
- 8 Each GACC prepares an intelligence report that consolidates fire and  
9 resource status information received from each of the local dispatch centers  
10 in its area. This report is sent to NICC and to the local dispatch centers,  
11 caches, and agency managers in the geographic area.
- 12 GACC Predictive Services maintains open lines of communication with  
13 interagency partners and ensures that contacts and roles are maintained and  
14 understood for the National Weather Service (NWS), NIFC, NICC, and  
15 adjacent GACCs. Predictive Services staff participate in planned briefings,  
16 meetings and conference calls, monthly/seasonal assessments, etc.
- 17 GACC Predictive Services, in coordination with the NWS, has an Annual  
18 Operating Plan (AOP) that outlines products and services provided by each  
19 office. GACC Predictive Services ensures that provisions within the AOP  
20 that affect local dispatch centers are coordinated with and communicated to  
21 those centers.

#### 22 **Local Dispatch Center Functional Responsibilities**

- 23 Local Dispatch centers are responsible for initial attack dispatching,  
24 coordination of communications, intelligence gathering and dissemination, and  
25 logistical support for local incidents and field operations.
- 26 • **Initial Attack Dispatching**
- 27 Local dispatch centers are the focal point for the report of, and initial  
28 response to wildland fires, and under appropriate authorities, other  
29 emergency incidents at the local level. Deployment of response resources is  
30 made in accordance with local processes and procedures as outlined in the  
31 dispatch center's mobilization guide.
- 32 Each dispatch office with the responsibility for initial response to wildland  
33 fires shall have a pre-planned response plan that allocates resources to new  
34 wildland fires in accordance with fire management direction, initial attack  
35 agreements, and established ordering procedures. The pre-planned response  
36 plan will be reviewed and updated annually prior to fire season.

- 1 Additionally, each center will have a method to document actions taken and  
2 resources sent to wildland fires. Centers may use either a manual or  
3 computer aided dispatch system.
- 4 Each dispatch center shall have maps posted that depict initial attack  
5 response areas, land ownership, jurisdictional and protection boundaries,  
6 hazards, and resource concerns. Each center will also ensure that Computer  
7 Aided Dispatch (CAD) and Geographic Information System (GIS) products  
8 are current, functioning, and utilized.
- 9 Dispatch centers will have protocols in place for frequency management,  
10 priority use of frequencies, and procedures for obtaining additional  
11 frequencies.
- 12 Local Dispatch centers will have protocols in place for timely request and  
13 dissemination of Fire Weather Forecasts, Spot Weather Forecasts, Fire  
14 Weather Watches, and Red Flag Warnings to firefighters, Incident  
15 Commanders, and field-going personnel.
- 16 The National Multi-Agency Coordinating Group (NMAC) has established  
17 incident name protocols. Guidance can be found at  
18 <http://www.nifc.gov/nicc/administrative/nmac/index.html>.
- 19 All required reference material will be current and accessible, and expired  
20 or out-of-date material will be removed.
- 21 • **Intelligence**  
22 The intelligence function is responsible for gathering and disseminating  
23 incident, resource, weather and predictive services information. Each  
24 dispatch center will ensure that locations and conditions of the fire weather  
25 stations are known and a current weather station catalog is available.  
26 Weather data will be archived daily in WIMS and seasonal inputs will be  
27 maintained, including vegetative state, fuel moisture values, daily state of  
28 the weather observations, and updating breakpoints.
- 29 ○ *FS – Dispatch centers are required to have a person trained in the*  
30 *National Fire Danger Rating System (NFDRS) assigned to data quality*  
31 *assurance responsibilities.*
- 32 Dispatch centers will ensure that coordination/communication with the local  
33 NWS Forecast Office occurs annually prior to fire season.
- 34 Local dispatch centers will have a process in place for submission of the  
35 daily situation report and ICS-209s.
- 36 Dispatch Centers with websites will ensure current intelligence and weather  
37 information is posted.

- 1 • **Expanded Dispatch and Incident Business Management**
  - 2 Expanded Dispatch is a functional branch of the Incident Support
  - 3 Organization (ISO) that supports incidents and expands as local fire
  - 4 conditions and activity dictates. Expanded Dispatch is established when a
  - 5 high volume of activity indicates that increased dispatch and coordination
  - 6 capability is required.
  - 7 Each dispatch center will have an Expanded Dispatch Operating Plan which
  - 8 provides specific details about when, where, and how to implement an
  - 9 Expanded Dispatch. The plan will identify logistical support facilities
  - 10 available for Expanded Dispatch use. These facilities will be pre-identified,
  - 11 procured, and available for immediate setup, along with necessary
  - 12 equipment.
  - 13 The Expanded Dispatch workspace will be separate from, but accessible to,
  - 14 the initial attack organization. The area should have adequate office space,
  - 15 including suitable lighting, heating/ cooling systems, and security.
  - 16 Expanded Dispatchers will have access to communications equipment
  - 17 including telephones, fax machines, copiers, and computer hardware with
  - 18 adequate data storage space.
  - 19 Qualified personnel should be on site in order to adequately staff required
  - 20 Expanded Dispatch functions. Expanded Dispatch supervisors are
  - 21 responsible for establishing a staffing and operating schedule for Expanded
  - 22 Dispatch, including operational period changes, briefings, and strategy
  - 23 meetings.
- 24 • **Aviation**
  - 25 Each dispatch center will have documented procedures established for
  - 26 dispatching of aviation resources. These procedures will include:
    - 27 ○ Aircraft ordering protocols for fire, logistical and administrative flights;
    - 28 ○ Procedures for disseminating availability and commitment status
    - 29 throughout the dispatch/coordination system;
    - 30 ○ Procedures for coordination with airtanker bases;
    - 31 ○ Procedures for airtanker, smokejumper and rappeller use and
    - 32 restrictions;
    - 33 ○ Procedures for flight following (including protocols for use of
    - 34 Automated Flight Following (AFF) and initial call on the National
    - 35 Flight Following Frequency);
    - 36 ○ Procedures for ordering and establishing TFRs;
    - 37 ○ Procedures for airspace de-confliction for Military Air Space (MTR,
    - 38 SUA, MOA) and Restricted Areas, and current Aviation flight hazard
    - 39 maps or military operating area sectionals;
    - 40 ○ Procedures for requesting FAA Temporary Towers; and
    - 41 ○ Procedures for reporting through the SAFECOM system.

**1 Accident Notification**

2 When an accident occurs, agency notification requirements will be followed. As  
3 soon as the accident is verified, the following should be notified:

- 4 • Local dispatch center;
- 5 • Unit Fire Management Officer; and
- 6 • Agency Administrator(s).

7 Additional notifications should occur in the dispatch/coordination system, from  
8 the local dispatch center to the NICC through the GACC.

**9 Incident Emergency Management Planning**

10 To achieve successful medical response, Agency Administrators will ensure that  
11 their units have completed the following items prior to each field season:

- 12 • A Medical Emergency Response Plan that identifies medical evacuation  
13 options, local/county/state/federal resource capabilities, capacities, ordering  
14 procedures, cooperative agreements, role of dispatch centers, and key  
15 contacts or liaisons;
- 16 • Standardized incident and communication center protocols identified in the  
17 Medical Incident Report section of the *IRPG*.
- 18 • For incidents that require the preparation of an IAP, Form ICS-206-WF will  
19 be used. This form is available at [http://www.nwcg.gov/publications/ics-](http://www.nwcg.gov/publications/ics-forms)  
20 forms.

21 For more information, refer to Chapter 7, and NWCG Correspondence EB-M-  
22 14-001 at <http://www.nwcg.gov/sites/default/files/memos/eb-m-14-01.pdf>.

**23 Dispatch/Coordination Center Reference Material**

24 All coordination/dispatch centers will have reference materials available to all  
25 dispatchers. See Appendix P for a list of minimum required reference materials  
26 or at [http://www.nifc.gov/policies/pol\\_intgncy\\_guides.html](http://www.nifc.gov/policies/pol_intgncy_guides.html).

**27 Training**

28 Dispatch/Coordination center staff will be trained in, and follow established  
29 procedures for, the use of applications utilized in center operations.

30 Personnel will be cross trained in each function (i.e., aircraft, crews, overhead,  
31 equipment, intelligence) in order to provide staffing coverage. Dispatch  
32 personnel will be trained in and follow center procedures for the following (as  
33 applicable):

- 34 • Resource Ordering and Status System (ROSS);
- 35 • Computer Aided Dispatch (CAD);
- 36 • Fire Code;

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- 1 • Automated Flight Following (AFF);
  - 2 • Unit Identifiers;
  - 3 • SIT Report/209; and
  - 4 • Other applications (e.g., WFDSS, I-Suite).
- 5 All dispatch center employees will have a documentation file for current season  
6 training, past season fire training, certifications and experience, fire experience,  
7 performance evaluations, and have task books initiated appropriate to their  
8 training needs. All supervisors will be familiar with safety and accident  
9 reporting processes (i.e., Safety Management Information System (SMIS),  
10 SAFENET, SAFECOM).
- 11 All employees will have current red cards produced by the Incident  
12 Qualification and Certification System (IQCS) as per Chapter 13.
- 13 • *BLM – BLM employees are required to complete the BLM Fire and*  
14 *Aviation Employee Orientation Checklist, available at the BLM Fire*  
15 *Operations website [http://web.blm.gov/internal/fire/fire\\_ops/index.html](http://web.blm.gov/internal/fire/fire_ops/index.html).*

#### 16 **Facilities and Equipment**

- 17 All Dispatch/Coordination Centers will have a telephone system with an  
18 adequate number of lines for normal business volume, and the capability to  
19 expand as conditions dictate. Centers will have teleconference capabilities  
20 commensurate with the anticipated volume of business.
- 21 Copying, facsimile, computer, and GIS systems shall meet operational needs  
22 (quantity and capability) and comply with agency standards. Software will be  
23 compatible with Information Resource Management and agency requirements  
24 for security.
- 25 All facilities shall have an evacuation plan, security plan, and safety practices in  
26 place to safe guard the health and welfare of employees.
- 27 Adequate facilities will be available to host an expanded dispatch or MAC group  
28 and shall include telephones, computer access, copiers, and basic office supplies.  
29 Rooms for MAC Group use will have adequate IT equipment and support.
- 30 All centers will have adequate workspace with room for reference materials and  
31 other necessary items to perform assigned duties. Individual workspace should  
32 be provided away from the initial attack floor for each permanent employee, and  
33 a break room area should be provided for employees.
- 34 Employees will have access to a locked area to store data that may contain  
35 personally identifiable information (PII) or personal items.

**1 Radio Systems**

- 2 Radio systems will have an adequate number of frequencies to provide for  
3 separation of incidents and use by all interagency partners. Base station and  
4 repeater transmissions shall be recorded and maintained in accordance with  
5 agency records management policies. Radio systems may have alert tones  
6 available for use as determined by local center policies.

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**EXHIBIT 7**

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**Appendix A**  
**Sample Questions for Fire Site Visits**  
**by Agency Administrators**

**Management Direction**

- \_\_\_ Who is the incident commander? If the fire is being managed under Unified Command, are all commanders present? Is the incident operating smoothly?
- \_\_\_ What is the incident organization?
- \_\_\_ What is the current situation? What has been damaged or is at risk?
- \_\_\_ Have you received adequate direction for the management of the incident?
- \_\_\_ Is a Wildfire Decision Support System required/still valid?
- \_\_\_ What are the incident management objectives? Constraints? Probability of success?
- \_\_\_ Are the tactics in the Incident Action Plan realistic and achievable with current resources?
- \_\_\_ Is a resource advisor needed?
- \_\_\_ What are your estimates of suppression costs?
- \_\_\_ What are the incident commander's concerns?
- \_\_\_ What are the local, social, economic, and political issues?
- \_\_\_ Are there rehabilitation needs?
- \_\_\_ What can I, as the agency administrator, do to help?

**Safety**

- \_\_\_ What are your safety concerns?
- \_\_\_ Are these concerns resolved? If not, what needs to be done?
- \_\_\_ What is the general safety attitude and emphasis?
- \_\_\_ Have you assessed the potential hazardous situations and determined if the fire can be fought safely?
- \_\_\_ Have you applied the Fire Orders, Watchout Situations, Lookout, Communication, Escape Routes, Safety Zones (LCES) process in selecting safe and effective strategies and tactics?
- \_\_\_ Have you effectively briefed firefighters on hazards, safety zones, escape routes, and current and expected weather and fire behavior?
- \_\_\_ Is the safety officer position filled? If not, how is this function being addressed?
- \_\_\_ Are you monitoring work schedules to ensure adequate rest? Are you meeting the standard work/rest guidelines?
- \_\_\_ Have you provided for adequate rest, food, water, and health services for all personnel?
- \_\_\_ Are all the fire personnel qualified for the positions they hold, and are they physically able to perform?
- \_\_\_ Have you had any injuries or accidents?

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APPENDIX A-I



**Fire Suppression Operations**

- \_\_\_ What is the fire weather forecast (present and extended)?
- \_\_\_ What is the fire behavior potential?
- \_\_\_ Are fire personnel briefed on incident objectives, strategies, tactics, organization, communications, hazards, and safety principles?
- \_\_\_ Are the strategy and tactics based on current and forecasted weather?
- \_\_\_ Are the strategy and tactics safe, effective, and consistent with management's objectives and accepted fire policies and procedures?
- \_\_\_ Do you have effective communication on the incident and with dispatch?
- \_\_\_ Are you monitoring weather and fire behavior to make needed adjustments to strategy and tactics?
- \_\_\_ Are you using tactical aircraft? Do you have an assigned air tactical group supervisor?
- \_\_\_ Is aircraft use safe, effective, and efficient? Do you have a TFR?
- \_\_\_ If the fire escapes initial attack, what will your role be in developing the Wildfire Decision Support System?

**Administration**

- \_\_\_ Do you have any administrative concerns?
- \_\_\_ What arrangements have you made to complete time reports, accident forms, fire report, etc.?
- \_\_\_ Did all orders and procurement go through dispatch?
- \_\_\_ Do you have any outstanding obligations?
- \_\_\_ Are all rental agreements and use records properly completed?
- \_\_\_ How did the fire start? If human-caused, has an investigation been initiated to determine the cause and develop a trespass case?
- \_\_\_ Do you know of any current or potential claims?

**Dispatch Office**

- \_\_\_ Is the incident receiving fire weather and fire behavior information?
- \_\_\_ Is the incident getting the resources ordered in a timely manner?
- \_\_\_ Is dispatch adequately staffed?
- \_\_\_ What are the local, area, and National Preparedness Levels? How do they affect this fire?
- \_\_\_ Are the elements identified at the various Preparedness Levels being considered?
- \_\_\_ What are the current local, area and national fire situations?
- \_\_\_ What is the priority of existing fires and how are the priorities being determined.

## Appendix B

### Manager's Supplement for Post Incident Review

Incident Commander \_\_\_\_\_  
 Incident Name and Number \_\_\_\_\_  
 Start Date and Duration of Incident \_\_\_\_\_  
 Date of Incident Debriefing \_\_\_\_\_  
 List of Debriefing Attendees: \_\_\_\_\_

Brief synopsis of fire behavior and narrative of the incident:

#### Fire Size-up:

- Gave an accurate sizeup of the fire to dispatch upon arrival?
- Managed fire suppression resources in accordance with the management objectives for the area and availability of resources?
- Did the unit support organization provide timely response and feedback to your needs? (Appendix A)
- Were there any radio communication issues?

#### Provide for the Safety and Welfare of Assigned Personnel:

- Gave operation briefing prior to firefighters being assigned to incident operations.
- How were incoming resources debriefed; via radio, personal contact?
- Were agency work/rest guidelines followed? Was adequate food and water provided to firefighters?

#### Fire Suppression Operations:

- Explain how the strategies and tactics used met management objectives, without compromising adherence to the Fire Orders, Watch Out Situations, and LCES?
- How were weather conditions monitored: daily weather briefings, spot weather forecasts or other?
- Were there adjustments needed to strategy and tactics?
- What were the potentially hazardous situations, and their mitigations?
- How were projected changes in the weather, tactics, hazards and fire behavior communicated to fire personnel?
- Were communications effective with dispatch and supervisor?
- Were all interested parties kept informed of progress, problems, and needs? Was aviation support used? If so, was it effective?
- Were there any injuries, close calls, or safety issues that should be discussed? Were these documented?

#### Administrative Responsibilities:

- Submitted complete documentation to supervisor for time, accidents, incident status, unit logs, evaluations, and other required or pertinent reports?
- Provided timely and effective notification of the fire status and unusual events or occurrences to dispatch and management.
- As requested, provided effective input into the Wildfire Decision Support System.
- If necessary, provided team transition briefing as assigned.
- Form ICS 201 was completed in accordance with local policy.

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APPENDIX B-1

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### Appendix C

#### Delegation for Unit Fire Management Officers

\_\_\_\_\_, Fire  
Management Officer for the \_\_\_\_\_ (Unit) is  
delegated authority to act on my behalf for the following duties and actions:

1. Represent the \_\_\_\_\_ (Agency) in the \_\_\_\_\_  
Multi-Agency Coordinating Group in setting priorities and allocating resources for  
fire emergencies.
2. Coordinate all prescribed fire activities in the \_\_\_\_\_  
(Unit) and suspending all prescribed fire and issuance of burning permits when  
conditions warrant.
3. Ensure that only fully qualified personnel are used in wildland fire operations.
4. Coordinate, preposition, send, and order fire and aviation resources in response to  
current and anticipated zone fire conditions.
5. Oversee and coordinate the \_\_\_\_\_ Interagency  
Dispatch Center on behalf of the \_\_\_\_\_ (Agency).
6. Request and oversee distribution of severity funding for Unit Fire and Aviation.
7. Approve Fire Program requests of overtime, hazard pay, and other premium pay.
8. Ensure all incidents are managed in a safe and cost-effective manner.
9. Coordinate and provide all fire and prevention information needs to inform internal  
and external customers with necessary information.
10. Coordinate all fire funding accounts with the Budget Officer to assure unit fiscal  
guidelines are adhered to and targets are met.
11. Approve and sign aviation request forms.
12. Approve Red Cards in accordance with agency policy.
13. Authorized to hire Emergency Firefighters in accordance with the Emergency  
Worker Pay Plan.

\_\_\_\_\_  
Fire Management Officer

\_\_\_\_\_  
Date

\_\_\_\_\_  
Agency Administrator

\_\_\_\_\_  
Date

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APPENDIX C-1

**EXHIBIT 7**

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Incident Name		
Approx. Size @	Date	Time
Location		
Date of Start		
Overhead and Suppression Resources Currently on Incident And Present IC		
General Fire Situation in Area		
Resources Ordered		
Other Organizations Requiring Coordination (Area Command, Expanded Dispatch, MAC, Buying Team, Payment Team, Tribal Government, Other Agency Jurisdictions)		
Law Enforcement/Ongoing Investigations		
Financial Considerations/Limitations		
Fire Behavior Considerations		
Weather Situation		
Fuel Types		
Topography		
Fire Behavior		
Appropriate Management Response Considerations Established Through and for the WDFSS Development Priorities		
Environmental Constraints		
Utility Corridors		

APPENDIX D-1

Air Operations	
Effectiveness	
Hazards	
Air Space Restrictions	
Airports, Heliports, Helispots	
Suppression Policies	
Other	
Environmental, Social, Political, Economic, and Cultural Resource Considerations	
Environmental	
Social	
Political	
Economic	
Cultural Resource	
Communications	
Radio	
Telephone	
Electronic (Computers)	
Expanded Dispatch	

Procurement Arrangements
Agreements
Tribal Government
Infrared Status
Security Considerations
Incident Management Direction and Considerations
Wildfire Decision Support System
Delegation of Authority
Agency Administrator's Representative
Incident Business Advisor
Resource Advisor
Suppression Priorities
Forest Supervisor/Incident Commander Contact
Time
Process
News Media and Incident Information Management
Training Considerations
Interagency/Private Property Considerations (costs, etc.)
Mop Up Standards
Rehabilitation Considerations
Initial Attack Responsibility
Support to Other Incidents
Disposition of Unit Resources on the Incident
Close Out and Debriefing

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APPENDIX D-3

EXHIBIT 7



Human Welfare
Safety
Health
Civil Rights
Distribute Support Documents
Wildfire Decision Support System (Common WFDSS if Unified Command)
Delegation of Authority Letter
Map and Photos
Fire Management, Pre-Attack, Land Management Plans
Weather Forecast
Special Management Area Documents
Phone Directory, Fax Number
Agreements
Incident Status Summary (ICS-209)
Business Management Documents
Payments (Vendors and Casuals)
Claims
Injury Compensation
Incident Business Guidelines (ISOPS)

## Appendix E

### Wildland Fire Risk and Complexity Assessment

The Wildland Fire Risk and Complexity Assessment should be used to evaluate firefighter safety issues, assess risk, and identify the appropriate incident management organization. Determining incident complexity is a subjective process based on examining a combination of indicators or factors. An incident's complexity can change over time; incident managers should periodically re-evaluate incident complexity to ensure that the incident is managed properly with the right resources.

#### **Instructions:**

Incident Commanders should complete Part A and Part B and relay this information to the Agency Administrator. If the fire exceeds initial attack or will be managed to accomplish resource management objectives, Incident Commanders should also complete Part C and provide the information to the Agency Administrator.

#### **Part A: Firefighter Safety Assessment**

**Evaluate the following items, mitigate as necessary, and note any concerns, mitigations, or other information.**

Evaluate these items	Concerns/Mitigations/Notes
LCES	
Fire Orders and Watch Out Situations	
Multiple operational periods have occurred without achieving initial objectives.	
Incident personnel are overextended mentally and/or physically and are affected by cumulative fatigue.	
Communication is ineffective with tactical resources and/or dispatch.	
Operations are at the limit of span of control.	
Aviation operations are complex and/or aviation oversight is lacking.	
Logistical support for the incident is inadequate or difficult.	

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**EXHIBIT 7**

## Part B: Relative Risk Assessment

Values				Notes/Mitigation
<b><u>B1. Infrastructure/Natural/Cultural Concerns</u></b> Based on the number and kinds of values to be protected, and the difficulty to protect them, rank this element low, moderate, or high. Considerations: key resources potentially affected by the fire such as urban interface, structures, critical municipal watershed, commercial timber, developments, recreational facilities, power/pipelines, communication sites, highways, potential for evacuation, unique natural resources, designated areas (i.e., wilderness), T&E species habitat, and cultural sites.	L	M	H	
<b><u>B2. Proximity and Threat of Fire to Values</u></b> Evaluate the potential threat to values based on their proximity to the fire, and rank this element low, moderate, or high.	L Far	M	H Near	
<b><u>B3. Social/Economic Concerns</u></b> Evaluate the potential impacts of the fire to social and/or economic concerns, and rank this element low, moderate, or high. Considerations: impacts to social or economic concerns of an individual, business, community or other stakeholder; degree of support for the wildland fire program and resulting fire effects; other fire management jurisdictions; tribal subsistence or gathering of natural resources; air quality regulatory requirements; public tolerance of smoke, including health impacts; potential for evacuation and ingress/egress routes; and restrictions and/or closures in effect or being considered.	L	M	H	
Hazards				Notes/Mitigation
<b><u>B4. Fuel Conditions</u></b> Consider fuel conditions ahead of the fire and rank this element low, moderate, or high. Evaluate fuel conditions that exhibit high ROS and intensity for your area, such as those caused by invasive species or insect/disease outbreaks; and/or continuity of fuels.	L	M	H	
<b><u>B5. Fire Behavior</u></b> Evaluate the current and expected fire behavior and rank this element low, moderate, or high. Considerations: intensity; rates of spread; crowning; profuse or long-range spotting.	L	M	H	
<b><u>B6. Potential Fire Growth</u></b> Evaluate the potential fire growth, and rank this element low, moderate, or high. Considerations: Considerations would include current and expected fire growth based on fire behavior analysis and the weather forecast and/or the ability to control the fire.	L	M	H	

Probability				Notes/Mitigation
<b><u>B7. Time of Season</u></b> Evaluate the potential for a long-duration fire and rank this element low, moderate, or high. Considerations: time remaining until a season ending event.	<b>L</b> Late	<b>M</b> Mid	<b>H</b> Early	
<b><u>B8. Barriers to Fire Spread</u></b> Evaluate the barriers to fire spread and their potential to limit fire growth, and rank this element low, moderate, or high. Considerations: If many natural and/or human-made barriers are present, rank this element low. If some barriers are present, rank this element moderate. If no barriers are present, rank this element high.	<b>L</b> Many	<b>M</b>	<b>H</b> Few	
<b><u>B9. Seasonal Severity</u></b> Evaluate fire danger indices and rank this element low/moderate, high, or very high/extreme. Considerations: Fire danger indices such as energy release component (ERC); drought status; live and dead fuel moistures; fire danger indices; adjective fire danger rating; geographic area preparedness level.	<b>L/M</b>	<b>H</b>	<b>VH/E</b>	
<b>Enter the number of items circled for each column.</b>				

**Relative Risk Rating (circle one):**

<b>Low</b>	Majority of items are "Low" with a few items rated as "Moderate" and/or "High."
<b>Moderate</b>	Majority of items are "Moderate" with a few items rated as "Low" and/or "High."
<b>High</b>	Majority of items are "High." A few items may be rated as "Low" or "Moderate."

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APPENDIX E-3

**EXHIBIT 7**

## Part C: Organization

Relative Risk Rating (from Part B)					
Circle the Relative Risk Rating (from Part B)		L	M	H	
Implementation Difficulty					Notes/Mitigation
<b><u>C1. Potential Fire Duration</u></b> Evaluate the estimated length of time that the fire may continue to burn if no action is taken and amount of season remaining. Rank this element low, moderate, or high. Note: This will vary by geographic area.	N/A Very Short	L Short	M	H Long	
<b><u>C2. Incident Strategies (Course of Action)</u></b> Evaluate the level of firefighter and aviation exposure required to successfully meet the current strategy and implement the course of action. Rank this element as very low, low, moderate, or high. Consider the likelihood that those resources will be effective; exposure of firefighters; reliance on aircraft to accomplish objectives; and whether there are clearly defined trigger points.	Very Low	L	M	H	
<b><u>C3. Functional Concerns</u></b> Evaluate the need to increase organizational structure to adequately and safely manage the incident, and rank this element very low (minimal resources committed), low (adequate), moderate (some additional support needed), or high (current capability inadequate). Considerations: Incident management functions (logistics, finance, operations, information, planning, safety, and/or specialized personnel/equipment) are inadequate and needed; availability of resources; access to EMS support; heavy commitment of local resources to logistical support; ability of local businesses to sustain logistical support; substantial air operation which is not properly staffed; worked multiple operational periods without achieving initial objectives; incident personnel overextended mentally and/or physically; Incident Action Plans, briefings, etc. missing or incomplete; performance of firefighting resources affected by cumulative fatigue; and ineffective communications.	Very Low	L	M	H	

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Socio/Political Concerns					Notes/Mitigation
<b><u>C4. Objective Concerns</u></b> Evaluate the complexity of the incident objectives and rank this element very low, low, moderate, or high. Considerations: clarity; ability of current organization to accomplish; disagreement among cooperators; tactical/operational restrictions; complex objectives involving multiple focuses; objectives influenced by serious accidents or fatalities.	Very Low	L	M	H	
<b><u>C5. External Influences</u></b> Evaluate the effect external influences will have on how the fire is managed and rank this element very low, low, moderate, or high. Considerations: limited local resources available for initial attack; increasing media involvement, social/print/television media interest; controversial fire policy; threat to safety of visitors from fire and related operations; restrictions and/or closures in effect or being considered; pre-existing controversies/relationships; smoke management problems; sensitive political concerns/interests.	Very Low	L	M	H	
<b><u>C6. Ownership Concerns</u></b> Evaluate the effect ownership/jurisdiction will have on how the fire is managed and rank this element very low, low, moderate, or high. Considerations: disagreements over policy, responsibility, and/or management response; fire burning or threatening more than one jurisdiction; potential for unified command; different or conflicting management objectives; potential for claims (damages); disputes over suppression responsibility.	Very Low	L	M	H	
Enter the number of items circled for each column.					

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APPENDIX E-5

EXHIBIT 7

## Part C: Organization (continued)

## Recommended Organization (circle one):

Type 5	Majority of items rated as "Very Low"; a few items may be rated in other categories.
Type 4	Majority of items rated as "Low," with some items rated as "Very Low," and a few items rated as "Moderate" or "High."
Type 3	Majority of items rated as "Moderate," with a few items rated in other categories.
Type 2	Majority of items rated as "Moderate," with a few items rated as "High."
Type 1	Majority of items rated as "High"; a few items may be rated in other categories.

## Rationale:

Use this section to document the incident management organization for the fire. If the incident management organization is different than the Wildland Fire Risk and Complexity Assessment recommends, document why an alternative organization was selected. Use the "Notes/Mitigation" column to address mitigation actions for a specific element, and include these mitigations in the rationale.

Name of Incident: \_\_\_\_\_ Unit(s): \_\_\_\_\_

Date/Time: \_\_\_\_\_ Signature of Preparer: \_\_\_\_\_

The RCA is also available at <http://www.nwcg.gov/?q=publications/210>.

## Appendix F

### Indicators of Incident Complexity

Common indicators may include the area (location) involved; threat to life, environment and property; political sensitivity, organizational complexity, jurisdictional boundaries, values at risk, and weather. Most indicators are common to all incidents, but some may be unique to a particular type of incident. The following are common contributing indicators for each of the five complexity types.

#### Type 5 Incident Complexity Indicators

General Indicators	Span of Control Indicators
<ul style="list-style-type: none"> <li>Incident is typically terminated or concluded (objective met) within a short time once resources arrive on scene.</li> <li>For incidents managed for resource objectives, minimal staffing/oversight is required.</li> <li>Resources vary from two to six firefighters.</li> <li>Formal Incident Planning Process not needed.</li> <li>Written Incident Action Plan (IAP) not needed.</li> <li>Minimal effects to population immediately surrounding the incident.</li> <li>Critical Infrastructure, or Key Resources, not adversely affected.</li> </ul>	<ul style="list-style-type: none"> <li>Incident Commander (IC) position filled</li> <li>Single resources are directly supervised by the IC</li> <li>Command Staff or General Staff positions not needed to reduce workload or span of control</li> </ul>

#### Type 4 Incident Complexity Indicators

General Indicators	Span of Control Indicators
<ul style="list-style-type: none"> <li>Incident objectives are typically met within one operational period once resources arrive on scene, but resources may remain on scene for multiple operational periods</li> <li>Multiple resources may be needed</li> <li>Resources may require limited logistical support</li> <li>Formal Incident Planning Process not needed</li> <li>Written Incident Action Plan (IAP) not needed</li> <li>Limited effects to population surrounding incident</li> <li>Critical Infrastructure or Key Resources may be adversely affected, but mitigation measures are uncomplicated and can be implemented within one Operational Period</li> <li>Elected and appointed governing officials, stakeholder groups, and political organizations require little or no interaction</li> </ul>	<ul style="list-style-type: none"> <li>IC role filled</li> <li>Resources either directly supervised by the IC or supervised through an ICS Leader position</li> <li>Task Forces or Strike Teams may be used to reduce span of control to an acceptable level</li> <li>Command Staff positions normally not filled to reduce workload or span of control</li> <li>General Staff position(s) normally not filled to reduce workload or span of control</li> </ul>

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**Type 3 Incident Complexity Indicators**

General Indicators	Span of Control Indicators
<ul style="list-style-type: none"> <li>Incident typically extends into multiple operational periods</li> <li>Incident objectives usually not met within the first or second operational period</li> <li>Resources may need to remain at scene for multiple operational periods, requiring logistical support</li> <li>Numerous kinds and types of resources may be required</li> <li>Formal Incident Planning Process is initiated and followed</li> <li>Written Incident Action Plan (IAP) needed for each Operational Period</li> <li>Responders may range up to 200 total personnel</li> <li>Incident may require an Incident Base to provide support</li> <li>Population surrounding incident affected</li> <li>Critical Infrastructure or Key Resources may be adversely affected and actions to mitigate effects may extend into multiple Operational Periods</li> <li>Elected and appointed governing officials, stakeholder groups, and political organizations require some level of interaction</li> </ul>	<ul style="list-style-type: none"> <li>IC role filled</li> <li>Numerous resources supervised indirectly through the establishment and expansion of the Operations Section and its subordinate positions</li> <li>Division Supervisors, Group Supervisors, Task Forces, and Strike Teams used to reduce span of control to an acceptable level</li> <li>Command Staff positions may be filled to reduce workload or span of control</li> <li>General Staff position(s) may be filled to reduce workload or span of control</li> <li>ICS functional units may need to be filled to reduce workload</li> </ul>

**Type 2 Incident Complexity Indicators**

General Indicators	Span of Control Indicators
<ul style="list-style-type: none"> <li>Incident displays moderate resistance to stabilization or mitigation and will extend into multiple operational periods covering several days</li> <li>Incident objectives usually not met within the first several Operational Periods</li> <li>Resources may need to remain at scene for up to 7 days and require complete logistical support</li> <li>Numerous kinds and types of resources may be required including many that will trigger a formal demobilization process</li> <li>Formal Incident Planning Process is initiated and followed</li> <li>Written Incident Action Plan (IAP) needed for each Operational Period</li> <li>Responders may range from 200 to 500 total</li> <li>Incident requires an Incident Base and several other ICS facilities to provide support</li> <li>Population surrounding general incident area affected</li> <li>Critical Infrastructure or Key Resources may be adversely affected, or possibly destroyed, and actions to mitigate effects may extend into multiple Operational Periods and require considerable coordination</li> <li>Elected and appointed governing officials, stakeholder groups, and political organizations require a moderate level of interaction</li> </ul>	<ul style="list-style-type: none"> <li>IC role filled</li> <li>Large numbers of resources supervised indirectly through the expansion of the Operations Section and its subordinate positions</li> <li>Branch Director position(s) may be filled for organizational or span of control purposes</li> <li>Division Supervisors, Group Supervisors, Task Forces, and Strike Teams used to reduce span of control</li> <li>All Command Staff positions filled</li> <li>All General Staff positions filled</li> <li>Most ICS functional units filled to reduce workload</li> </ul>

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**Type 1 Incident Complexity Indicators**

General Indicators	Span of Control Indicators
<ul style="list-style-type: none"> <li>• Incident displays high resistance to stabilization or mitigation and will extend into numerous operational periods covering several days to several weeks.</li> <li>• Incident objectives usually not met within the first several Operational Periods.</li> <li>• Resources may need to remain at scene for up to 14 days, require complete logistical support, and several possible personnel replacements.</li> <li>• Numerous kinds and types of resources may be required, including many that will trigger a formal demobilization process.</li> <li>• DOD assets, or other nontraditional agencies, may be involved in the response, requiring close coordination and support.</li> <li>• Complex aviation operations involving multiple aircraft may be involved.</li> <li>• Formal Incident Planning Process is initiated and followed.</li> <li>• Written Incident Action Plan (IAP) needed for each Operational Period.</li> <li>• Responders may range from 500 to several thousand total.</li> <li>• Incident requires an Incident Base and numerous other ICS facilities to provide support.</li> <li>• Population surrounding the region or state where the incident occurred is affected.</li> <li>• Numerous Critical Infrastructure or Key Resources adversely affected or destroyed. Actions to mitigate effects will extend into multiple Operational Periods spanning days or weeks and require long-term planning and considerable coordination.</li> <li>• Elected and appointed governing officials, stakeholder groups, and political organizations require a high level of interaction.</li> </ul>	<ul style="list-style-type: none"> <li>• IC role filled</li> <li>• Large numbers of resources supervised indirectly through the expansion of the Operations Section and its subordinate positions</li> <li>• Branch Director Position(s) may be filled for organizational or span of control purposes</li> <li>• Division Supervisors, Group Supervisors, Task Forces, and Strike Teams used to reduce span of control</li> <li>• All Command Staff positions filled and many include assistants</li> <li>• All General Staff positions filled and many include deputy positions</li> <li>• Most or all ICS functional units filled to reduce workload</li> </ul>

The RCA is also available at <http://www.nwccg.gov/?q=publications/210>.

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**Appendix G**  
**Sample Delegation of Authority AA to IMT**

Delegation of Authority  
Colorado State Office  
Montrose Field Office

As of 1800, May 20, 2005, I have delegated authority to manage the Crystal River Fire, Number E353, San Juan Resource Area, to Incident Commander Bill Jones and his Incident Management Team.

The fire, which originated as four separate lightning strikes occurring on May 17, 2005, is burning in the Crystal River Drainage. My considerations for management of this fire are:

1. Provide for firefighter and public safety.
2. Manage the fire with as little environmental damage as possible.
3. Key cultural features requiring priority protection are:
4. Key resources considerations are:
5. Restrictions for suppression actions include:
6. Minimum tools for use are:
7. My agency Resource Advisor will be:
8. The fire borders are:
9. Manage the fire cost-effectively for the values at risk.
10. Provide training opportunities for the resources area personnel to strengthen our organizational capabilities.
11. Minimum disruption of residential access to private property, and visitor use consistent with public safety.
12. Efforts should be made to minimize some impacts to communities and ensure that communication is maintained with the state Air Quality Bureau.

\_\_\_\_\_  
(Signature and Title of Agency Administrator)

\_\_\_\_\_  
(Date)

**Amendment to Delegation of Authority**

The Delegation of Authority dated May 20, 2005, issued to Incident Commander Bill Jones for the management of the Crystal River Fire, number E353, is hereby amended as follows. This will be effective at 1800, May 22, 2005.

13. Key cultural features requiring priority protection are:
14. Use of tracked vehicles authorized to protect Escalante Cabin.

\_\_\_\_\_  
(Signature and Title of Agency Administrator)

\_\_\_\_\_  
(Date)

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APPENDIX G-1

**EXHIBIT 7**

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## Appendix H

### Local Incident Commander Briefing to IMT

The Incident Briefing, ICS-201 form provides the basis for the local incident commander to brief the incoming team.

**Briefing Information**

<b>Forms Available or Attached:</b> <input type="checkbox"/> ICS 201 <input type="checkbox"/> ICS 215 <input type="checkbox"/> ICS 207 <input type="checkbox"/> ICS 220 <input type="checkbox"/> ICS 209	<b>Other Attachments:</b> <input type="checkbox"/> Map of Fire <input type="checkbox"/> Aerial Photos <input type="checkbox"/> Weather Forecast
Fire Start Date:	
Time:	
Fire Cause:	
Fuels Ahead of Fire:	
Fuels at Fire:	
Fire Behavior:	
Fire Spread:	
Natural Barriers:	
Anchor Points:	
Perimeter Secured, Control/Mitigation Efforts Taken, and Containment Status:	

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**EXHIBIT 7**

Life, Improvements, Resources and Environmental Issues:		
Weather Forecast:		
	Established	Possible
ICP:	<input type="checkbox"/>	<input type="checkbox"/>
Base:	<input type="checkbox"/>	<input type="checkbox"/>
Camp(s):	<input type="checkbox"/>	<input type="checkbox"/>
Staging Area(s):	<input type="checkbox"/>	<input type="checkbox"/>
Copy Machine Available		<input type="checkbox"/> Yes <input type="checkbox"/> No
Safety Issues:		EMS in Place: <input type="checkbox"/> Yes <input type="checkbox"/> No
Air Operations Effectiveness to Date:		
Air Related Issues and Restrictions:		
Hazards (Aircraft and People):		
Access from Base to Line:		
Personnel and Equipment on Incident (Status and Condition):		
Personnel and Equipment Ordered:		
Cooperating and Assisting Agencies on Scene:		

Helibase/Helispot Location:
Crash Fire Protection at Helibase:
Medivac Arrangement:
Communication System in Use: <input type="checkbox"/> Radio <input type="checkbox"/> Telephone <input type="checkbox"/> Cell Phone
Water Availability:
Review of Incident Action Plan; Copy of Approved Wildfire Decision Support System Published Decision:
Smoke Conditions:
Local Political Issues:
Damage Assessment Needs:
Security Problems:

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APPENDIX H-3

**EXHIBIT 7**



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### Appendix I Incident Management Team Performance Evaluation

<b>Team IC</b>		<b>Incident Type</b>	
<b>Incident Name</b>		<b>Incident Number</b>	
<b>Assignment Dates</b>		<b>Total Acres</b>	
<b>Host Agency</b>		<b>Evaluation Date</b>	
<b>Administrative Unit</b>		<b>Sub-Unit</b>	
<p>At the conclusion of each incident management team (IMT) assignment, the agency administrator or representative should complete this initial performance evaluation (sections 1-5). This evaluation should be discussed directly with the incident commander. The initial performance evaluation should be delivered by the agency administrator without delay to the incident commander, the state/regional fire management officer, and the chair of the IMT's home geographic area multi-agency coordination group to ensure prompt follow-up to any issues of concern.</p>			
<p style="text-align: center;"><b>Complete the follow evaluation narratives and rating for each question</b></p> <p style="text-align: center;">0 – did not achieve expectations      3 – met expectations      5 – excelled</p>			
<p>1. How well did the Team accomplish the objectives described in the Wildland Fire Decision Support System (WFDSS) the Delegation of Authority, and the Agency Administrator Briefing?</p>			
Circle one	0	1	2
3	4	5	
<p>(Explain)</p>			
<p>2. How well did the Team manage the cost of the incident? Did the team follow agency incident operating guidelines? Were follow-up issues identified and documented for the Agency Administrator i.e.; invoices, OWCP and vendor issues?</p>			
Circle one	0	1	2
3	4	5	
<p>(Explain)</p>			

3. How did the Team demonstrate sensitivity to resource limits/constraints and environmental concerns?						
Circle one	0	1	2	3	4	5
(Explain)						
4. How well did the Team deal with sensitive political and social concerns?						
Circle one	0	1	2	3	4	5
(Explain)						
5. Was the Team professional in the manner in which they assumed management of the incident and how they managed the total incident? How did the Team handle transition either to another IMT or in returning the incident the hosting agency?						
Circle one	0	1	2	3	4	5
(Explain)						
6. How well did the Team anticipate and respond to changing conditions, was the response timely and effective?						
Circle one	0	1	2	3	4	5
(Explain)						
7. How well did the Team place the proper emphasis on safety?						
Circle one	0	1	2	3	4	5
(Explain)						

8. Did the Team activate and manage the mobilization/demobilization in a timely and cost effective manner?						
Circle one	0	1	2	3	4	5
(Explain)						
9. How well did the Team use local resources, trainees, and closest available forces?						
Circle one	0	1	2	3	4	5
(Explain)						
10. How did the Team notify the incident agency regarding triggers for initiating a cost share agreement or large fire cost review? How were those recommendations implemented?						
Circle one	0	1	2	3	4	5
(Explain)						
11. Was the IC engaged and in charge of the Team and the Incident? How well did the IC function and operate as a leader?						
Circle one	0	1	2	3	4	5
(Explain)						

12. How timely was the IC in assuming responsibility for the incident and initiating action?						
Circle one	0	1	2	3	4	5
(Explain)						
13. How did the IC show sincere concern and empathy for the hosting unit and local conditions?						
Circle one	0	1	2	3	4	5
(Explain)						
14. Did the Incident Management Team provide an organized financial package (comps/claims documentation completed, payment documents forwarded, I-suite updated, etc.) to the host unit or next IMT prior to demobilization?						
Circle one	0	1	2	3	4	5
(Explain)						
15. Other comments:						
Agency Administrator or Representative:					Date:	
Incident Commander:					Date:	

**Appendix J**  
**Sample Delegation – Lessons Learned Review (LLR)**

**Memorandum**

To: LLR Facilitator; Title of Person/Office This is Meant For

From: Delegating Official

Subject: Delegation of Authority – (Incident Name) LLR

**Situation Summary:**

You are hereby designated the authority to lead and conduct a LLR for (Incident Name). The review process will begin at (Identify LLR start time, date, and location). The Fire Staff and Fire Management Office have identified the group of employees who will also be participating. That information will be provided to you upon your arrival.

You have the authority to tailor your team and the LLR process to fit the situation and your style of facilitation. However, I would like you to utilize the guidance outlined in the *Interagency Standards for Fire and Fire Aviation Operations Chapter 18*, while conducting the LLR. This includes:

- convening the participants;
- identifying facts of the event and developing a chronological narrative of the event;
- identifying underlying reasons for success or failure;
- identifying what was learned and what should/could be done differently in the future;
- identify any recommendations that would prevent future similar occurrences; and
- providing a final, written report covering the above items, which is due to me within two weeks of the event occurrence.

If you need any assistance, your primary contact will be:

Thank you for your time and assistance.

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**EXHIBIT 7**

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### Appendix K Minimum Standards of Incident Emergency Medical Services

#### Interim NWCG Minimum Standards

Incident Size	Initial Attack	<250	250 to 500	> 500
Medical Unit Leader (MEDL)	No	TBD by IC and jurisdictional agency	YES (1)	YES (1)
First Responder or Basic FA	Yes	Yes	N/A	N/A
MEDL EMTs	No	No	1	2
EMTs	No	To be determined by the IC or jurisdictional agency	1	2
MEDL Quals	N/A	N/A	310-1 Basic EMT	310-1 Basic EMT
Med Unit EMT Quals	N/A	Basic EMT	310-1 Basic EMT	310-1 Basic EMT
EMTs per Division	N/A	To be determined in consultation with Operations and/or Medical Unit	To be determined in consultation with Operations and/or Medical Unit	To be determined in consultation with Operations and/or Medical Unit
Establish Local Medical Direction	N/A	To be determined by the IC or jurisdictional agency	Yes	Yes
First Aid Kits	Pocket & Vehicle First Aid Kits	Pocket, Vehicle and Crew First Aid Kits	Pocket, Vehicle and Crew First Aid Kits	Pocket, Vehicle and Crew First Aid Kits
100 person First Aid Kit	No	To be determined by the IC or jurisdictional agency	Yes	No
500 person First Aid Kit	No	No	No	Yes
AED	To be determined by the IC or jurisdictional agency	To be determined by the IC or jurisdictional agency	Yes	Yes

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**APPENDIX K MINIMUM STANDARDS OF INCIDENT EMERGENCY MEDICAL SERVICES**

<b>Incident Size</b>	<b>Initial Attack</b>	<b>&lt;250</b>	<b>250 to 500</b>	<b>&gt; 500</b>
<b>Oxygen</b>	No	No	TBD	Yes
<b>OTC Meds</b>	No	To be determined in consultation with Safety Officer, Medical Unit Leader, and Finance Section Chief	To be determined in consultation with Safety Officer, Medical Unit Leader, and Finance Section Chief	To be determined in consultation with Safety Officer, Medical Unit Leader, and Finance Section Chief
<b>Emergency Transport</b>	N/A	Method to provide transport to the nearest medical facility is to be identified in the Incident Action Plan	Method to provide transport to the nearest medical facility is to be identified in the Incident Action Plan	Method to provide transport to the nearest medical facility is to be identified in the Incident Action Plan

**NOTE:** Regional differences/protocols exist that vary from these guidelines and may require a higher level of EMS service. Examples of regional differences/protocols are: 1) Northern Rockies (Incident Medical Specialist Program); 2) Pacific Northwest (Incident Medical Specialist Program); and 3) Alaska (Firemedic Program).

**Appendix L**  
**Delegation of Authority – FAST**

**Delegation of Authority**  
**Geographic Area**  
**Fire and Aviation Safety Team (FAST)**

Situation Summary (issues and concerns/reason for ordering the FAST)

Objectives (measurable)

Team Skills Required (per objectives listed above)

The final team composition will be determined at time of dispatch and members named on the resource order.

**Mission**

The FAST is to conduct an independent assessment and evaluation of operational and managerial activities (related to the specific objectives stated above) at the following locations (mission segments):

The team may determine visits to other incidents/organizations/operations as appropriate, and may do so after coordination with the GMAC. The FAST will contact the GMAC Coordinator (describe frequency of contact):

The FAST is to provide technical or managerial assistance when requested and where necessary to immediately correct an identified, critical problem. The FAST may also provide short-term assistance in managing situations or incidents when requested by the incident, organization, or operation.

**Protocols**

The FAST will organize and conduct an entry briefing with the appropriate managers of the locations/incidents identified previously. The entry briefing will provide the objectives and operational parameters of the mission.

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Once the mission segment is completed, the FAST will organize and conduct an exit briefing with the same officials or their designees, during which a draft of the mission-segment report will be presented and discussed. Components of this report will include:

- Purpose and Objectives
- Findings, Commendations, and Recommendations
- Follow-up Actions Needed
- Immediate
- Long-term
- Scope (local, area, national)
- Copy of the DoA

The FAST will contact the GMAC Coordinator\_\_\_\_\_.

FAST will provide a final written report to the GMAC Coordinator upon completion of all mission segments. This report will include:

- FAST Final Report Outline
- Executive Summary
- Purpose and Objectives
- Summary (Findings, Recommendations, Commendations, Assistance Provided)
- Critical and Immediate Follow-up Actions Required
- Introduction
- Methods and Procedures
- Mission Segments (Summary of Incidents, Organizations, Operations Reviewed. Include copies of Mission Segment Reports)
- Analysis
- Findings and Trends, Commendations, and Recommendations
- Follow-up Actions Needed
- Immediate
- Long-term
- Scope (local, area, national)
- A copy of the DoA

The \_\_\_\_\_ Multi-Agency Coordination Group hereby charters and delegates the preceding authority to \_\_\_\_\_, FAST Leader, effective on \_\_\_\_\_.

/s/

Chair, \_\_\_\_\_ Coordinating Group

Date: \_\_\_\_\_

## Appendix M NUS Engines

The following chart shows the NUS minimum stocking levels required for agency engines.  
*BLM units see the agency-specific NUS on the NFEP website.*

Category	Item Description	NFES #	Type	Type
			3, 4, & 5	6
Fire Tools and Equip	McLeod	0296	1	
	Combination Tool	1180	1	1
	Shovel	0171	3	2
	Pulaski	0146	3	2
	Backpack Pump	1149	3	2
	Fusees (case)	0105	1	½
	Foam, concentrate, Class A (5-gallon)	1145	1	1
	Chainsaw (and chaps)		1	1
	Chainsaw Tool Kit	0342	1	1
	Drip Torch	0241	2	1
	Portable Pump		*	*
Medical	First Aid Kit, 10-person	1143	1	1
	Burn Kit		1	1
	Body Fluids Barrier Kit	0640	1	1
General Supplies	Flashlight, general service	0069	1	1
	Chock Blocks		1	1
	Tow Chain or Cable	1856	1	1
	Jack, hydraulic (comply w/GVW)		1	1
	Lug Wrench		1	1
	Pliers, fence		1	1
	Food (48-hour supply)	1842	1	1
	Rags	3309	*	*
	Rope/Cord (feet)		50	50
	Sheeting, plastic, 10' x 20'	1287	1	1
	Tape, duct	0071	1	1
	Tape, filament (roll)	0222	2	2
	Water (gallon/person) minimum		2	2
	Bolt Cutters		1	1
	Toilet Paper (roll)	0142	*	*
	Cooler or Ice Chest	0557	*	*
	Hand Primer, Mark III	0145	*	*
	Hose Clamp	0046	2	1
	Gaskets (set)		1	1
	Pail, collapsible	0141	1	1
	Hose Reel Crank		*	*

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## APPENDIX M

## NUS ENGINES

Category	Item Description	NFES #	Type	Type
			3, 4, & 5	6
Safety	Fire Extinguisher (5 lb)	2143	1	1
	Flagging, Pink (roll)	0566	*	*
	Flagging, Yellow w/Black Stripes (roll)	0267	*	*
	Fuel Safety Can (Type 2 OSHA, metal, 5-gallon)	1291	*	*
	Reflector Set		*	*
Vehicle and Pump Support	General Tool Kit (5180-00-177-7033/GSA)		1	1
	Oil, automotive, quart		4	2
	Oil, penetrating, can		1	1
	Oil, automatic transmission, quart		1	1
	Brake Fluid, pint		1	1
	Filter, gas		1	1
	Fan Belts		1	1
	Spark Plugs		1	1
	Hose, air compressor w/adapters		1	0
	Fuses (set)		1	1
	Tire Pressure Gauge		1	1
	Jumper Cables		1	1
	Battery Terminal Cleaner		*	*
	Tape, electrical, plastic	0619	1	1
	Tape, Teflon		1	1
Personal Gear (Extra Supply)	File, mill, bastard	0060	*	*
	Head Lamp	0713	1	1
	Hard Hat	0109	1	1
	Goggles	1024	2	2
	Gloves		*	*
	First Aid Kit, individual	0067	1	1
	Fire Shirt		*	*
	Fire Shelter w/case and liner	0169	2	1
	Packsack	0744	2	1
	Batteries, headlamp (pkg)	0030	6	4
	Ear Plugs (pair)	1027	3	3
Radio	Portable		1	1
	Mobile		1	1
	Batteries (for portable radio)		2	2

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Category	Item Description	NFES #	Type	Type
			3, 4, & 5	6
Hose	Booster (feet/reel)	1220	100	100
	Suction (length, 8' or 10')		2	2
	1" NPSH (feet)	0966	300	300
	1½" NH (feet)	0967	300	300
	¾" NH, garden (feet)	1016	300	300
	1½" NH, engine protection (feet)		20	20
	1½" NH, refill (feet)		15	15
Nozzle	Forester, 1" NPSH	0024	3	2
	Adjustable, 1" NPSH	0138	4	2
	Adjustable, 1½" NH	0137	5	3
	Adjustable, ¾" NH	0136	4	2
	Foam, ¾" NH	0627	1	1
	Foam 1½" NH	0628	1	1
	Mopup Wand	0720	2	1
	Tip, Mopup Wand	0735	4	2
	Tip, Forester, Nozzle, fog	0903	*	*
	Tip, Forester Nozzle, straight stream	0638	*	*
Wye	1" NPSH, Two-Way, Gated	0259	2	1
	1½" NH, Two-Way, Gated	0231	4	2
	¾" NH w/Ball Valve, Gated	0739	6	4
Adapter	1" NPSH-F to 1" HN-M	0003	*	*
	1" NH-F to 1" NPSH-M	0004	1	1
	1½" NPSH-F to 1 ½" NH-M	0007	1	1
	1½" NH-F to 1 ½" NPSH-M	0006	*	*
Increaser	¾" NH-F to 1" NPSH-M	2235	1	1
	1" NPSH-F to 1 ½" NH-M	0416	2	1
Coupling	1" NPSH, Double Female	0710	1	1
	1" NPSH, Double Male	0916	1	1
	1½" NH, Double Female	0857	2	2
	1½" NH, Double Male	0856	1	1
Reducer/ Adapter	1" NPSH-F to ¾" NH-M	0733	3	3
	1½" NH-F to 1 NPSH-M	0010	6	4
	2" NPSH-F to 1 ½" NH-M	0417	*	*
	2½" NPSH-F to 1 ½" NH-M	2229	*	*
Reducer	1½" NH-F to 1" NH-M	0009	1	1
	2½" NH-F to 1 ½" NH-M	2230	1	1
Tee	1" NPSH-F x 1" NPSH-M x 1" NPSH-M, w/cap	2240	2	2
	1½" NH-F x 1 ½" NH-M x 1" NPSH-M w/cap	0731	2	2
	1½" NH-F x 1 ½" NH-M x 1" NPSH-M w/valve	0230	2	2

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## APPENDIX M

## NUS ENGINES

Category	Item Description	NFES #	Type	Type
			3, 4, & 5	6
Valve	1½" NH-F, Automatic Check and Bleeder	0228	1	1
	¾" NH, Shut Off	0738	5	5
	1" Shut Off	1201	1	1
	1½" Shut Off	1207	1	1
	Foot, w/strainer		1	1
Injector	1" NPSH x 1/12" NH, Jet Refill	7429	*	*
Wrench	Hydrant, adjustable, 8"	0688	1	1
	Spanner, 5", 1" to 1½" hose size	0234	4	1
	Spanner, 11", 1½" to 2 ½" hose size	0235	2	2
	Pipe, 14"	0934	1	1
	Pipe, 20"		1	1
Engine	Fireline Handbook	0065	1	1
	GPS Unit		1	1
	Belt Weather Kit	1050	1	1
	Binoculars		1	1
	Map Case w/ maps		1	1
	Inventory List		1	1
	<i>Current Interagency Standards for Fire and Fire Aviation Operations</i>		1	1

\* No minimums – carried by engines as an option, within weight limitations

## NPS – Additional or Differing Items Recommended by NPS

Category	Item Description	NFES #	Type	Type
			3, 4, & 5	6
Fire Tools and Equip <sup>1</sup>	Flapper (NPS)		*	*
	Council Rake (NPS)	1807	*	*
	Leaf blower		*	*
	Shovel	0171	2	1
	Extra Quart, 2 cycle mix		2	1
	Portable Pump		1	*
General Supplies	Chock Blocks		1	1
	Tape, filament (roll)	0222	2	1
	Bolt Cutters		*	*
	Hose Clamp	0046	2	2
Safety	Reflector Set		1	1
Vehicle and Pump Support	Oil, automotive, quart		2	1
	Power steering Fluid		1	1
	Antifreeze (seasonal)		*	*
	Filter, air for engine and pump		*	*

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## NUS ENGINES

## APPENDIX M

Category	Item Description	NFES #	Type	Type
			3, 4, & 5	6
Personal Gear (Extra Supply)	File, mill, bastard	0060	*	*
	Fire Shelter w/case and liner	0925/0975	1	1
	Packsack	0744	2	1
Radio	Batteries (for portable radio)		2	2
Hose	2½" Refill Hose, Water tender		*	*
Nozzle	Adjustable, 1 ½" NH	0137	3	3
Wyes	¾" NH w/Ball Valve, Gated	0739	6	2
Coupling	1" NPSH, Double Male	0916	2	1
	1" NH, Double Male	0856	2	2
Reducer/ Adapter	1" NPSH-F to ¾" NH-M	0733	3	2
	1½" NH-F to 1 NPSH-M	0010	6	3
Tee	1" NPSH-F x 1" NPSH-M x 1" NPSH-M, w/cap	2240	2	*
Valve	1½" NH-F, Automatic Check and Bleeder	0228	1	*
	¾" NH, Shut Off	0738	4	2
Wrench	Pipe, 20"		1	*
Engine	Accident Forms (Vehicle and Personnel)		1	1
	Compass		1	1

<sup>1</sup> A minimum of eight tools for type 3, 4, 5 engines and a minimum of five tools for type 6 engines is required. The listed numbers of tools in each box are required to be on the engine. Beyond that, the tools listed as optional or additional required tools can make up the rest of the minimum number required for engines.

\* No minimums – carried by engines as an option, within weight limitations

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## Appendix N

### Wildland Fire Decision Support System Information

#### WFDSS Subsections

The Wildland Fire Decision Support System is divided into 9 subsections represented by tabs within the program. These sections are: Information, Situation, Assessment, Objectives, Course of Action, Cost, Decisions, Periodic Assessment, and Reports.

#### Information

Basic information for an incident is found in this section, which includes: Incident Name, Point of Origin, Unique Fire Identifier, Fire Code, Fire Perimeter/Incident Size, Discovery Date, Containment Date, Controlled Date, Out Date, Landscape Data Source, Geographic Area, Responsible Unit at Point of Origin, Incident Cause, and Jurisdictional Agency at Point of Origin. Updating this information is essential for ongoing incidents (especially acreages and dates) as this information is automatically populated into the WFDSS Decision content. WFDSS is connected with the Integrated Reporting of Wildland fire Information (IRWIN) and transfers information to and from other fire applications through IRWIN. See the IRWIN website <http://www.doi.gov/pmb/owf/irwin.cfm> for current information regarding shared information and order of precedence of the system for editing data. It is also important that the incident Owner(s) are available when the incident is updated or transferred. Incident ownership may be associated with an individual or group, depending on fire complexity, jurisdictions involved, and other considerations.

#### Situation

The Situation section provides a map interface displaying a variety of incident and reference information. It reduces the need for paper maps by giving users a dynamic and intuitive interface in which information needed for decision support is timely and easily accessible from anywhere with an internet connection. This section allows users to create new shape files, view values and boundaries, and conduct Basic and Short-Term fire analysis.

Map (sub tab) – Has several spatial layers available:

- Base Layers – USGS Topo Imagery, USGS Imagery, USGS Topos, ESRI Topos, ESRI World Imagery, WFDSS Topos, Google Maps, Google Physical, U.S. States;
- Incident – Planning Areas, Fire Perimeters, Management Action Points, Points of Interest, Objective Shapes, Point of Origin;

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- Analysis – Ignitions, Barriers, Landscape Masks, Basic Fire Behavior, Short Term Fire Behavior, Near Term Fire Behavior, FSPro (Values at Risk);
- Fire Environment and Safety – Active MODIS 6, Active MODIS 12, Active MODIS 24, MODIS YTD, VIIRS-I 6, VIIRS-I 12, VIIRS-I 24, VIIRS-I YTD, Est Ground Evac Time, Retardant Avoidance, Aquatic Res Avoidance, Incidents, Active Planning Areas;
- Disturbance History – WFDSS Fires Since January 1 of Current Year, Historical Wildfires, Fuel Treatments, Burn Severity;
- Fire Weather and Danger – Significant Fire Potential, Fire Wx Zones, RAWs Stations;
- Boundaries – Jurisdictional Agencies, Responsible Agencies, Federal Admin Areas, TNC Lands, Counties;
- Designated Areas – Wilderness, Potential Wilderness, Special, Other, BLM;
- Infrastructure – Facilities, Communication, Energy, Roads and Trails;
- Natural and Cultural Resources – Air Quality, Critical Habitat (T&E), Sage Grouse Habitat; and
- Unit Fire Planning – Unit Outlines, FMUs, and Other Unit Shapes for each agency unit shown on the map. Data managers can upload shape files that contain information about local values.

Menu (sub tab) – Provides links to other tools and utilities within WFDSS.

Info (sub tab) – the user can access Information and the Map Capture tool. Information includes: Feature Information, Fire Danger (ERC charts), Smoke Dispersion, Strategic Objectives, Fire Weather Forecasts, Predictive Services Significant Fire Potential, and Hourly Weather Forecast. Additionally users can access basic information about the underlying landscape file: Source, Elevation, Aspect, Slope, Fuel Model, Canopy Cover, Bulk Density, Stand Height, Base Height.

#### **Assessment**

Users complete the Relative Risk Assessment and Organization Assessment, create Risk Tables identifying local values at risk, and identify Benefits expected from the fire.

#### **Objectives**

Strategic Objectives and Management Requirements as entered from approved plans (Land and Resource Management Plans, Fire Management Plans) can be viewed here. Based on the Planning Area, Strategic Objectives and Management Requirements are automatically loaded to the Decision content for reference when a new fire occurs. Incident Objectives and Incident Requirements are created for an individual incident. Incident Objectives address protection of assets, social-political needs, or use of fire for resource benefits, but at least one protection objective is required on every incident. Develop good Incident

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Objectives by addressing What, Where, When (optional), and Why in order to express leader's intent and a sense of priority. When possible, limit Incident Objectives to five so as not to bury important information. See [www.wfmrda.nwcg.gov/line\\_officer\\_resources.php](http://www.wfmrda.nwcg.gov/line_officer_resources.php) for more information. Incident Requirements state the limitations that the Agency Administrator imposes on fire managers associated with achieving the Incident Objectives in alignment with the overarching Strategic Objectives.

Spatial Fire Planning (SFP) is an optional planning process available to spatially describe an administrative unit's Strategic Objectives and Management Requirements. For more information about WFDSS Spatial Fire Planning, refer to the WFDSS homepage: <http://wfdss.usgs.gov>.

#### **Course of Action**

The Course of Action (COA) tab is where Incident Owners and Editors can describe the overall fire management strategy and develop and document one or more Action Items that will accomplish the Incident Objectives and Requirements developed for an Incident. The COA should express the leader's (Agency Administrator) intent, and should be aligned with direction provided in the delegation of authority. A COA is a required part of a decision and must contain at least one action item. Users can edit, include, or exclude action items each time a new decision is made for the incident.

Management Action Points (MAPs) (left menu) may be developed to define a condition that when met, prompts implementation of a pre-determined action. The Condition, Action, and optional Cost can be defined and linked to geospatial MAPs drawn in the Situation tab.

#### **Cost**

Several methods for determining cost can be found here; follow your agency direction and include a summary of how the cost was constructed. The Stratified Cost Index (SCI) tool is available for USFS and DOI incidents. The correct model is automatically chosen by the Unit ID in the Unique Fire Identifier. The model requires input for the estimate final acreage of the incident. Users can input up to four different estimated acreages.

#### **Decisions**

In this section, users create, view, edit, and download published decisions. It is important that Owners, Editors, and Reviewers become familiar with their role and understand how to manipulate the incident content into the Decision Content. Additionally, knowing and understanding how and where to save information as agreed upon by the incident Owner(s) are essential. From this tab, an Owner(s) starts the review and approval process. Incident decisions can be edited by incident Owners or by those users who have been granted access through incident privileges. Users will access the decision editor by checking the

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radio button next to the pending decision, then clicking EDIT. Once editing is completed, users click the Check-In button to allow access by others.

The WFDSS Decision content is outlined into several sections: Incident-Information, Weather, Modeling, Risk, Benefits, Objectives (includes all FMUs, Strategic Objectives and Management Requirements included in the Planning Area as well as all included Incident Objectives and Incident Requirements), Course of Action (includes MAPs), Cost, and Rationale. Multiple editors can be working on different sections of the WFDSS Decision content with a little coordination and using the edit / check-in process. Additional information that supports the Decision should be added to each of these sections.

The users who are editing the Decision content should include maps captures or uploaded images that support the Decision or help tell the story of the incident and the Decision. These images can be added to any section of the content as needed. Additionally, the Editors should also include all support information: cost development summary, Relative Risk, social/political concerns, fire behavior models, Values at Risk, long term assessment information.

Prior to submitting a Decision for the Review and Approval process, the Rationale portion of the Decision must be completed. The Rationale content should describe why the Decision was made to implement the Course(s) of Action. Consider explaining what caused you to make this Decision, what caused you to choose the Course(s) of Action, what are the causes and influences on the incident, what are the social and political concerns/pressures, what does the Relative Risk Assessment tell you, are there smoke concerns, and what fire behavior models informed the Decision.

Once a Decision has all the sections completed, it can be submitted for the Review and Approval process. If a Decision has not been published, it can be edited or deleted. However, once a Decision has been published, it is part of that incident record and cannot be changed or removed.

The Incident Objectives, Incident Requirements, Course of Action and Planning Area cannot be viewed by users who do not have incident ownership or privileges until a Decision is published. A new Decision must be made if updated information or findings are to be documented.

#### **Periodic Assessment**

This is the section where the Approver(s) will complete the Periodic Assessment and view the previous actions and comments. The Periodic Assessment must be completed based on the timeframe specified by the Approver. Depending upon the complexity and activity on the incident, the timeframe can be set to 1-14 days while publishing the Decision or during the Periodic Assessment process.

It is beneficial to document clear, concise information about the incident when completing the Periodic Assessment. The Periodic Assessment information will be part of the project record and a way for someone to gather situational awareness of the incident. It should be useful information, not only during the incident, but also for years to come when reviewing incidents. The comment section is especially pertinent because Approvers can outline the thought process and reasons for either continuing a current decision or requiring a new one.

### **Reports**

This section allows users to create custom reports consisting of portions of Decision content, (e.g. the MAP content or Fire Behavior content). A report can be viewed, edited, published, and downloaded. The Report section does not provide a report on a Published Decision. Reports on Published Decisions can be found in the Decisions tab by using the PDF or HTML button, depending on desired format. When creating a report the user can decide on a custom, Delegation of Authority, or a Management Action Point report. These reports give the user the ability to select pertinent information from the incident for the report they are constructing.

### **WFDSS Tools and Functions**

#### **WFDSS User Roles and Incident Privileges**

User Roles within WFDSS correspond to permissions which allow users to perform certain tasks within the application, such as creating an incident or conducting fire behavior analysis. Typical User Roles are Viewer, Dispatcher, Author, Data Manager, and Fire Behavior Specialist.

Incident privileges are assigned at the time of (and are specific to) an incident. These privileges allow you to Own, Edit, Review, or Approve decision content.

#### **Fire Modeling**

Fire modeling has been incorporated into WFDSS, in the form of the Fire Spread Probability model (FSPro), Basic Fire Behavior (Basic), Short Term Fire Behavior (STFB) and Near Term Fire Behavior (NTFB). Comparison of WFDSS Short Term and Basic models to stand alone FlamMap and other fire behavior information can be found on the WFDSS homepage under the Related References link, fire behavior section. Information for requesting assistance in running these models for your incident can be found at the WFDSS homepage through the Wildland Fire Management Research and Development and Application group, or by visiting [http://www.wfmrda.nwcg.gov/decision\\_support.php](http://www.wfmrda.nwcg.gov/decision_support.php).

#### **Relative Risk Assessment (Assessment Tab or left menu)**

The Relative Risk Assessment is required before publishing a Decision for an incident. Its purpose is to assist in planning for, assessing, and managing the

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incident. It provides the Agency Administrator with a quick but comprehensive assessment of the risk of the fire. An incident Owner or Editor can perform the assessment.

This is a qualitative process that can be completed in less time than a quantitative long-term risk assessment. The Relative Risk Assessment chart uses three risk components:

- values
- hazard
- probability

Each of these components is assessed independently. The three outputs are then evaluated in a final step that provides the Relative Risk rating for the fire. As the graphs are completed, there is a text box to document the thoughts/reasons for the inputs. The information from the text box automatically populates in the WFDSS Decision content but the graphs themselves do not. Relative Risk can be visited pre-season to define some local inputs. From the Relative Risk rating, guidance is provided within the system to assist the Owner/Author in determining the level of analysis needed, considerations for the incident and documentation of the Decision.

#### **Organizational Assessment (Assessment Tab or left menu)**

The Organizational Assessment (OA) is required to publish a Decision for an incident. It guides Agency Administrators in their management organization selection, both in escalating and moderating situations (.i.e. this process can be used to expand or contract organizations). The OA is based on Relative Risk, implementation difficulty, and decision concerns. The final part of the OA combines these variables to allow users to select the level of incident management needed.

#### **Incident KMZ (left menu)**

Incident KMZ files can be downloaded that include all the incident spatial data and completed analysis from the Published Decision(s). The spatial data is composed of the incident shapes found under the Incident and Analysis layers folder on the Situation Tab. If a decision is pending, only spatial information available to all users will be provided in the KMZ.

#### **WFDSS Suggested Refresher Items**

Visit the WFM RD&A Line Officer Resources page for current refresher and training materials at [http://www.wfmrda.nwcg.gov/line\\_officer\\_resources.php](http://www.wfmrda.nwcg.gov/line_officer_resources.php).

It is suggested that the following items are covered in an annual WFDSS refresher. Utilize the WFDSS 101 training for details in any of the topical areas below. Suggested minimum duration for review is two hours.

*Strategic Objectives and Requirements* – briefly review what is currently pre-loaded in WFDSS, discuss if there is conflicting information within the same Strategic Objective (SO) or FMU, and evaluate what fire management options can be utilized within each SO/FMU. Determine if edits are needed to update the information currently in WFDSS.

*Boundary Fires* – discuss, with interagency partners, how fires will be managed along boundaries. Utilize a fire scenario for this discussion if possible and work through the WFDSS process.

*Fire Scenario* – discuss/input the fire scenario in WFDSS Training.

- Utilize a fire scenario that is somewhat complex and includes interagency partners.
- Planning Area – draw a planning area with dialogue around how to draw it and what to include within it.
- Values Inventory – review the values inventory as provided in WFDSS from the planning area.
- Situation Tab – review information available in the situation tab.
- Relative Risk and Organizational Assessment – complete this process making notes of what various elements were rated the way they were.
- Incident Objectives / Incident Requirements – write them for the scenario. Review to ensure they provide leader's intent and the "why" type information.
- Course of Action – develop a course of action that further explains leader's intent, the priorities for the incident, and as needed, what not to do.
- Scenarios – as the above information is developed, discuss the potential scenarios and document those actions not taken in the assessment or rationale.
- Rationale – draft the rationale to include "My decision is..." information. This is the executive summary of the document. Consider documenting what is allowed in the management plan, the probability of being successful, the expected duration, and what was considered but rejected. The Rationale section provides a list of items to consider addressing and discussing.
- If interagency partners are not involved in the scenario, discuss who, when and how they would have been involved during an incident.

*Fire Behavior Models* –

- Discuss the various models (FSPPro, NTFB, STFB) and when any of them might be utilized.
- Review the values at risk information provided by the models and how it varies from the values inventory.

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- Discuss how the models might be utilized to answer what types of questions.
- Review products previously utilized by the forest to evaluate risk on a fire or assist with decision making

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## Appendix O Work Capacity Test Record

Units will document the administration of the WCT to all employees and job applicants. This documentation must be retained until the next WCT is administered. Units may also be requested to provide data from these records to assist in the evaluation of the WCT process.

Privacy Act – No employee may disclose records subject to the Privacy Act unless the disclosure is permitted under 43 CFR 2.56 or to the individual to whom the record pertains. The Privacy Act contains a criminal penalty for unauthorized disclosure of records. (5 U.S.C. 552a)

To be completed by employee:

Name (Last, First): \_\_\_\_\_ Where employed: \_\_\_\_\_

Date test taken: \_\_\_\_\_ Test administered by: (Print Name) \_\_\_\_\_

ICS position for which test is required (highest needed) \_\_\_\_\_

Performance level needed (circle one):

Arduous

Moderate

Light

Type of test taken (circle one):

Pack Test

Field Test

Walk Test

Work Capacity Test Descriptions:

	Pack Test	Field Test	Walk Test
Pack weight	45 lbs.	25 lbs.	None
Distance	3 miles	2 miles	1 mile
Time	45 minutes	30 minutes	16 minutes

To be completed by test administrator:

Test result time:

Employee passed test (circle one): Yes/No

I certify that the work capacity test was administered according to agency guidelines.

\_\_\_\_\_  
(Signature of Test Administrator)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Date)

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## Appendix P Dispatch Reference

### **Dispatch Center Local Mobilization Guide/Dispatch Operating Plan**

The dispatch local mobilization guide/operating plan will contain or provide reference to the following elements and procedures. These elements or procedures may exist in other plans or references in the local dispatch office.

- **Organization**
  - Chain-of-command/table of organization for the center, local agencies and cooperators
  - Notification process/procedures; roles/responsibilities, etc.
- **Dispatch Operations**
  - General information
  - Dispatcher roles and responsibilities
  - Procedures for each functional area (Coordinator On Duty, Overhead, Crews, Equipment, Aircraft, predictive services, etc.)
  - Dispatcher training and qualification requirements
  - Dispatch Center Staffing Plan
    - Call-out procedures for additional personnel in emergency situations
    - Designation of duty officer for dispatch center.
    - Shift limitations and day off/EFF hiring
  - Procedures for dispatch of resources off unit
- **Daily Duties**
  - Check-in/out of administrative/fire personnel
  - Procedures for gathering and disseminating intelligence and Weather/briefings
  - Verification of initial attack response levels
  - Verification of status of suppression resources
  - Preparedness level establishment and verification
  - Procedures for providing information to the field about Suppression/Support Resource availability, radio frequencies to be used; burning conditions/fuel types; weather forecast updates; local fire activity; agency policies, fire activity, incident updates, weather updates, resource status
  - Procedures for recording radio traffic, key events, and other information in a format accessible to all personnel (e.g., COD Notes, Shift Briefs)

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- **Initial Attack/Response Plan Elements**
  - Preplanned dispatch plans, Run-cards, and dispatch procedures
  - Management notification of a reported fire
  - Procedures for identifying preparedness levels
  - Process for assessing the appropriate response
  - Identification and notification of resources to respond
  - Cooperator support and planned response
  - Communications procedures
  - Procedures to follow when activity exceeds the initial attack/response plan
  - Aviation procedures
  - Incident name protocols
- **Emergency Operations (Fire/Non-fire)**
  - Notification of a reported incident
  - Jurisdiction verification
  - Response plan activation
  - Agency and area notification
  - Move-up and cover procedures
  - Call-back procedures
  - Evacuation of incident area
  - Closing public/private roads
  - Ordering additional personnel, equipment, and aircraft
  - Fire Weather Watch and Red Flag Warning notification
  - Temporary Flight Restrictions (TFRs)
  - Agency duty officers (roles and responsibilities)
  - Aviation Mishap Response Guide
  - Utility company notification (power and gas)
  - Law enforcement dispatching procedures/requirements
  - HazMat/spill response notification procedures
  - Local government requesting all-risk assistance
  - Search and Rescue
- **Local Agreements**
  - Copies of all interagency or inter-unit agreements and associated annual operating plans that govern the use of fire management resources
  - Maps delineating areas of responsibility for fire suppression coverage

- **Communications**
  - Procedures for assigning/managing local radio frequencies
  - Procedures for obtaining additional frequencies
  - Maps of repeater sites
  - Instructions for using local dispatch radio consoles, phones, computers, fax machines, paging systems, etc.
    - *BLM – The BLM National Radio Operations Branch internal website hosts radio and frequency policy documents and related information. The internal website is <https://sites.google.com/a/blm.gov/nrob/>.*
- **Weather**
  - Procedures for Processing of weather observations via Weather Information Management System (WIMS)
  - Daily posting and briefing procedures
  - Broadcasts of fire weather forecasts to local fire suppression personnel
  - Procedures for processing spot weather forecast requests and disseminating spot forecasts to the field
  - Procedures for immediate notification to fire suppression personnel of Fire Weather Watches and Red Flag Warnings
- **Fire Danger**
  - Locally significant fire danger indices and recording of those values daily
  - Procedures for update and posting of monthly the seasonal trends of those values versus seasonal averages
- **Briefings**
  - Time frames and frequencies/locations for daily briefings
  - Method for documenting briefings (time given, content of briefing, and person(s) conducting and receiving briefing)
- **Preparedness Levels**
  - General information relating to the local preparedness plan:
    - Procedures for identifying preparedness level
    - Notification to management
    - Dispatching roles and responsibilities at each preparedness level
  - Trigger Points
    - Specific triggers that cause the preparedness level to move up or down, such as number/size of fires, amount and type of resources available/committed, regional/national fire situation, condition of local fuels, observed fire behavior, human-caused risk or predicted lightning activity level, etc.

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- Specific actions tied to each preparedness level, such as extended staffing, prepositioning of suppression resources (crews, engines, airtankers, smokejumpers, etc.), the activation of local Multi-Agency Coordination (MAC) groups, making contact with other agencies, and hiring of call when needed (CWN) aircraft, emergency equipment rental agreements (EERA), or administratively determined (AD) pay plan crews
- **Aviation**
  - Ordering/scheduling requirements and procedures
  - Special use airspace
  - Special use mission requirements
  - Incident/accident reporting and documentation procedures
  - Flight management/tracking procedures
- **Expanded Dispatch Plan**
  - Indicators for considering establishment of expanded dispatch
  - Recommended organization and points of contact
  - Overhead positions to order
  - Location/facilities, equipment/supplies, support needs
  - Procurement or buying unit team considerations
- **Service and Supply Plan**
  - Current copies of competitive Incident Blanket Purchase Agreements (I-BPAs)
  - Source lists for incident-only sign-ups
  - Protocols for the use of Dispatch Priority Lists (DPLs)
  - Protocols for incident business coordination with agency administrative personnel
  - Contact lists and hiring procedures for AD or non-fire personnel, ground, and logistics support
  - A list of locations for use as Staging Areas, Mobilization Centers, and Incident Command Posts (where applicable)
  - Procedures for Local and Geographic Area Cache ordering
  - Commercial travel procedures (including instructions on the use of the agency corporate travel cards)
  - Incident Management Team and Buying Team mobilization

**Administrative Items**

- Funding; travel; time sheets; fire reports, etc.
- Procedures for completing and archiving fire records
- Procedures for mobilization of critical incident stress debriefing teams

**Medical Plan**

- Criteria/definitions; agency notification and documentation requirements
- Procedures for Emergency Medical Response and notification
- Activation/evacuation information
- Medical facility locations and phone numbers
- Air and ground transport (Medevac) capability
- Burn center information

**Media Plan**

- General procedures
- Notification requirements to agency external affairs personnel
- Routing for media calls

**Required Reference Materials**

All coordination/dispatch centers will have the following reference materials available:

- *National Interagency Mobilization Guide*
- *Geographic Area Mobilization Guide*
- *Interagency Standards for the ROSS Operations Guide*
- *Interagency Standards for Fire and Fire Aviation Operations*
- *WIMS User Guide*
- *National Predictive Services Handbook*
- *Interagency Situation Report User's Guide*
- *ICS – 209 Program User's Guide*
- *North American Emergency Response Guidebook (DOT)*
- *Interagency Helicopter Operations Guide*
- *Aircraft Identification Guide*
- *Interagency Air Tanker Bases Directory*
- *Interagency SEAT Operations Guide*
- *Interagency Areal Supervision Guide*
- *Interagency Smokejumper Operations Guide*
- *National Retardant Contract*
- *Interagency Call When Needed Helicopter Contract*
- *Interagency Airspace Guide*
- *Interagency Air Tanker Base Operations Guide*
- *Military/National Guard Operating Plan (if applicable)*

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- Aviation Safety Plans
  - AP1B
  - Frequency Guides
  - National Regional/State/Local Aviation Plans
  - Local airport, SEAT base, air tanker base, helibase and smoke jumper base locations
  - Current and complete *Interagency Aviation Mishap Response Guide*
  - *National Food Service Contract, NFES 1276*
  - *National Shower Facilities Contract, NFES 2729*
  - *National Incident Radio Support Cache (NIRSC) User's Guide, NFES 0968*
  - *Interagency Incident Business Management Handbook* including Geographic Area Supplements
  - *National Fire Equipment Systems Catalog, NFES 0362*
  - DPL contracts for vendors located in the local area
  - A Continuation of Operations Plan (COOP)
  - Fire Danger Operating Plan or other preparedness operating plan\*
  - Current Fire Danger PocketCards\*
  - Fire Management Plan\*
  - Mutual aid/initial attack agreements\*
- \* Local Dispatch Centers only.

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## 2016 Interagency Standards for Fire and Fire Aviation Operations Executive Summary of Changes

### Chapter 1 – Federal Wildland Fire Management Policy Overview

- No substantial changes.

### Chapter 2 – BLM

- Removed text regarding this chapter states, references, or supplements policy for BLM, and inserted, “This chapter provides policy and guidance for Bureau of Land Management fire and aviation program management as referenced in *BLM Manual Section (MS) 9200 Fire Program Management*.”
- Inserted text regarding the Fire Operations Division Chief’s responsibility to certify Area Command and Type 1 Command and General Staff task books and red cards for the national and Washington offices.
- Inserted text regarding the Fire Operations Division Chief to provide written daily NMAC group briefings to BLM Assistant Director (FA), Deputy Assistant Director (FA), state FMOs and geographic MAC members in FIAT states at National Preparedness Level 3 and above.
- Clarified existing text in the “Management Performance Requirements for Fire Operations” table regarding State Director/Associate and District/Field Manager responsibilities for establishment of a fire organization to meet fire management objectives based on priorities and within national allocations.
- Clarified existing text in the “Management Performance Requirements for Fire Operations” table regarding Agency Administrator fire training requirement.
- Clarified existing text in the “Management Performance Requirements for Fire Operations” table regarding Agency Administrator requirement to visit fires each year.
- Clarified existing text regarding Fire Training for Agency Administrators and their actings.
- Inserted text in the “Fire Staff Performance Requirements for Fire Operations” table requiring District/Zone/Field Office FMO to develop, maintain, and implement a drawdown plan.
- Inserted text in the “Fire Staff Performance Requirements for Fire Operations” table requiring the District/Zone/Field Office FMO to develop IMT briefing packages prior to fire season.
- Inserted text in the “Fire Staff Performance Requirements for Fire Operations” table requiring the State FMO to certify Area Command and Type 1 Command and General Staff positions.
- Inserted major subsection “State and National Duty Officers” regarding preposition of suppression assets during fire season and dedicated duty officer telephone numbers.
- Removed existing text for expired Washington Office Instruction Memorandum No. 2012-196.
- Inserted text regarding mobile fire equipment transfer approval requirements.
- Inserted text for engine and command vehicle driver qualifications when responding with lights and sirens.
- Inserted minor subsection “BLM Fire Operations Group National Preposition Strategy” and text regarding the establishment and purpose of the Asset Intelligence Spreadsheet.
- Clarified text regarding each state director and the Fire and Aviation division chiefs for Operations and Aviation to expend short term severity funds.
- Removed “fire management plan” and inserted “Fire Danger Operating Plan” in regards to National Level Severity Funding.
- Inserted text regarding, “Mitigate threats to values identified in Land and Resource Management Plans with AD, Fire and Aviation concurrence” in regards to National Level Severity Funding.
- Inserted text regarding AD, Fire and Aviation may consider other factors when approving requests for national severity.
- Clarified existing text regarding 12 instead of 13 key fire management positions in IFPM.
- Clarified text in the “BLM Hand Crew Standards by Type” table for Type 1 crew size as a maximum of 22.
- Removed existing text referencing the *Alaska Interagency Mobilization Guide*, for mobilizing Type 2 crews within Alaska consisting of 16 personnel.

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Executive Summary of Changes-1

## 2016 EXECUTIVE SUMMARY OF CHANGES

- Removed text regarding BLM Interagency Hotshot Crew (IHC) mobilization from Eastern and Southern Geographic Areas.
- Inserted text regarding BLM IHC crew size for mobilization as a standard of 20 with a maximum of 22.
- Clarified existing text regarding how BLM Fire Suppression Modules will be statused, tracked, and mobilized in ROSS.
- Clarified existing text regarding the number of smokejumpers in “one load” as 6-10.
- Clarified text regarding the name of the Interagency Smokejumper Aircraft Screening and Evaluation Subcommittee.
- Clarified existing text regarding smokejumper physical fitness standards.
- Changed major subsection from “Sage Grouse Conservation Related to Wildland Fire and Fuels Management” to “Sage Grouse Conservation Related to Wildland Fire.”
- Removed existing text regarding sage-grouse conservation related to fuels management and clarified the website to access current information.
- Inserted text regarding large fire assessments for wildfires occurring in sage-grouse habitat.
- Removed text regarding WFDSS “Course of Action” and inserted “Cost tab.”
- Inserted major subsection “BLM Global Positioning System (GPS) Datum and Coordinate Standard.”

### Chapter 3 – NPS

- Removed major subsection “NPS Wildland Fire Operations Website.”
- Inserted major subsection “Fire Management Leadership Board.”
- Inserted text under “Training for Park Superintendents” regarding required training for park superintendent designated actings.
- Removed existing text in the “NPS Firefighters General Training Requirements” table regarding 8 hours minimum for the Annual Fireline Safety Refresher and inserted, “No minimum hourly requirement.”
- Removed existing text regarding Fire Management Credentials and inserted text that, “The NPS Fire and Aviation Management Credential Program is currently suspended and undergoing a review.”
- Removed existing text regarding WFDSS “Course of Action” and inserted “Cost tab.”

### Chapter 4 – FWS

- Clarified existing text regarding the Regional Director to review any prescribed fire that is converted to a wildfire.
- Removed existing text regarding Refuge Managers/Project Leaders performance requirements based on unit’s complexity.
- Removed Project Leader/Refuge Manager title and inserted Agency Administrator.
- Inserted “Zone” before FMO in the “Management Performance Requirements for Fire Operations” table and throughout the chapter.
- Clarified existing text regarding the Zone Fire Management Officer can represent the Agency Administrator on fire and fire aviation groups as delegated.
- Removed existing text regarding, “An FMO may be assigned to provide wildland fire management support to a group of refuges (zone) when individually each refuge does not warrant a fulltime FMO.”
- Removed existing text under Delegation of Authority for Regional Fire Management Coordinator to, “Direct accelerated, aggressive initial attack when appropriate.”
- Clarified existing text under Delegation of Authority for Regional Fire Management Coordinator from approve “emergency” fire severity funding to approve “short-term” fire severity funding.
- Changed major subsection from “Daily Fire Reporting” to “Fire Reporting,” and clarified existing text regarding reporting requirements.
- Removed existing text regarding guidance document for agency qualification of Agency Administrator (AADM) and inserted new guidance document.

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**EXHIBIT 7**

## 2016 EXECUTIVE SUMMARY OF CHANGES

- Inserted text regarding frequency of AD and EFF required training courses.
- Inserted major subsection “FWS Global Positioning System (GPS) Datum and Coordinate Standard.”

### Chapter 5 – FS

- Changed major subsection from “Agency Administrator Positions” to “Agency Administrator Roles and Responsibilities for Incident Management.”
- Clarified existing text regarding Agency Administrator core competencies.
- Inserted website for *Line Officer Desk Reference for Fire Program Management*.
- Changed minor subsection from “Line Officer Certification Program” to “Agency Administrator Certification Program.”
- Removed existing text throughout the chapter referencing “Line Officer(s)” and replaced with “Agency Administrator(s).”
- Clarified existing text regarding Agency Administrator training, background and experience, and demonstrated ability for Working, Journey, and Advanced Levels.
- Inserted minor subsection “Evaluation Process” in regards to Agency Administrators.
- Removed minor subsection “Other Considerations” and consolidated/clarified text under minor subsection “Evaluation Process.”
- Inserted text under “Evaluation Process” regarding Agency Administrator creditable work experience to achieve and maintain certification levels.
- Inserted minor subsection “Currency” in regards to Agency Administrator core competencies.
- Inserted minor subsection “Definitions” under major subsection “Agency Administrator Roles and Responsibilities for Incident Management.”
- Inserted text referencing core fire management competencies under major subsection “Agency Administrator Responsibilities for Fire and Aviation at the Field Level.”
- Removed existing text referencing GSA and inserted DLA and the website for the DLA Wildland Fire Equipment Catalog.
- Clarified text regarding approval authority for the different incident types.

### Chapter 7 – Safety and Risk Management

- Removed existing text requiring long-sleeved flame resistant shirt be yellow.
- Inserted text regarding long-sleeved flame resistant shirt and trousers be National Fire Protection Association (NFPA) 1977 compliant.
- Clarified text regarding Head Protection-hardhats.
- Clarified and inserted text under “Required Treatment for Burn Injuries.”
- Changed minor subsection “Burn Injury Criteria” to “ABA Burn Injury Criteria” in regards to the American Burn Association (ABA) criteria.
- Clarified and inserted text regarding American Burn Association burn injury criteria.
- Inserted text regarding burn injury severity determination.
- Inserted a picture depicting percentage Total Body Surface Area (TBSA) for burn injuries.
- Inserted minor subsection “Wildland Fires In or Near Coal Seams.”
- Inserted text regarding the “Safety Alert System,” and descriptions of the three levels of Safety Alerts.
- Clarified existing CISM text and inserted minor subsections “Critical Incident Peer Support (CIPS)” and “Critical Incident Peer Support Groups.”

### Chapter 8 – Interagency Coordination and Cooperation

- Removed text regarding, “The office’s approved fire management plan must define the role of the contractor in the overall program” in reference to Contracts.
- Inserted text that ICS will be used to manage all fires under federal jurisdiction.
- Inserted BLM-specific text identifying the website for agreements/AOPs with Department of Defense and best practices, including UXO protocols.
- Deleted existing BLM-specific text regarding accepting each other’s standards during initial action and inserted, “BLM may accept the standards of any local cooperator through the

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## 2016 EXECUTIVE SUMMARY OF CHANGES

duration of an incident when the cooperator has a current cooperative fire response agreement with BLM, and the cooperator is in compliance with the agreement. Personnel from agencies that do not subscribe to the NWCG qualification standards may be used on agency managed fires, and must only be assigned to duties commensurate with their competencies, qualifications, and equipment capabilities.”

- Inserted text regarding communication plans, training, ICS and integration of resources to the Cooperation element of Annual Operating Plans (AOPs).
- Inserted major subsection “All-Hazard Incident Management Teams and Other Non-Wildland Fire Incident Management Teams.”

### Chapter 9 – Fire Management Planning

- Inserted text regarding the purpose of planning strategically.
- Clarified existing text regarding fire management planning efforts should address the vision and goals of the Cohesive Strategy.
- Inserted websites for the DOI framework, and BLM and NPS Fire Management Plan templates.
- Clarified existing text regarding the Forest Service replacement of FSH 5109.19 with a Fire Management Planning Guide.
- Inserted website for *WFDSS Spatial Fire Planning Guide*.
- Removed existing text regarding fire planning information/guidance websites.
- Removed existing text referencing *April 30, 2010 (NWCG #024-2010)* document under Concepts and Definitions.
- Removed existing text regarding Fire Management Unit management objectives.
- Clarified existing text for DOI and the Forest Service regarding the connection of Land/Resource Management Plans and Fire Management Plans to other plans.

### Chapter 10 – Preparedness

- Clarified existing text regarding Preparedness.
- Changed major subsection from “Preparedness Plans” to “Preparedness Planning” and clarified supporting text.
- Inserted text regarding a website for references, templates, and other supporting materials pertaining to the Fire Danger Operating Plan (FDOP) process.
- Inserted major subsection “Fire Danger Rating” and minor subsection “Communication of Fire Danger.”
- Clarified existing text under major subsection “Fire Danger Operating Plan Rating.”
- Changed minor subsection from “Climatic Breakpoints and Fire Business Thresholds” to “Decision Point Analysis” and clarified text.
- Inserted minor subsection “Fire Danger-based Decisions.”
- Moved “Staffing Level” under major subsection “Step-up/Staffing Plans” and clarified text.
- Removed minor subsection “Adjective Fire Danger Rating” and moved the clarified text to “Staffing Level” under major subsection “Step-up/Staffing Plans.”
- Inserted text regarding supplemental preparedness actions for Preparedness Level Plans.
- Changed major subsection from “Step-up Plans” to “Step-up/Staffing Plans,” and clarified text.
- Inserted “Staffing Level” as a minor subsection.
- Changed major subsection from “Initial Response Plans” to “Initial Response/Pre-planned Dispatch Plans,” and clarified existing text.
- Changed major subsection from “Fire Prevention/Mitigation” to “Fire Prevention/Mitigation Plans,” moved subsection forward in the chapter, and clarified existing text.
- Clarified existing text regarding Fire Danger PocketCard for Firefighter Safety and inserted text regarding timeframes for updating PocketCards.
- Inserted major subsection “Managing Weather Data in WIMS.”
- Changed major subsection from “Management Actions for Noncompliant Remote Automated Weather Stations (RAWS)” to “Management Actions for Remote Automated Weather Stations (RAWS),” and moved it back in the chapter.

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**EXHIBIT 7**

## 2016 EXECUTIVE SUMMARY OF CHANGES

- Inserted new major subsection “Predictive Service Areas.”
- Clarified text regarding 10 instead of 11 Geographic Area Predictive Services units.
- Clarified text regarding Local Unit Seasonal Tracking.
- Changed all minor subsections under Fire Severity Funding to include the word “Fire” and clarified text throughout.
- Clarified existing text that fire severity funding is not intended to mitigate threats to Threatened and Endangered Species habitat, wildland/urban interface, or other values identified in Land and Resource Management Plans for NPS, FWS, and the USFS.
- Changed minor subsection from “Appropriate Severity Funding Charges” to “Appropriate Fire Severity Funding Charges and Activities” and clarified text.
- Changed minor subsection from “Interagency Requests” to “Interagency Severity Requests” and clarified text.
- Inserted and/or clarified text in the “Sequence of Action and Responsible Parties for Severity Funding Requests” table for the Unit FMO and State/Regional FMO, and specific USFS requirements.
- Changed major subsection from “Professional Liability Insurance” to “Qualification for Professional Liability Insurance Reimbursement.”

### Chapter 11 – Incident Management

- Inserted major subsection “All-Hazard Incident Management Teams and Other Non-Wildland Fire Incident Management Teams.”
- Clarified existing text regarding the Integration Reporting of Wildfire Information (IRWIN) data exchange system.
- Removed existing text referencing NWCG Memorandum # 012-2011, “Wildland Fire Decision Support System (WFDSS) Decision Documentation and GACG Responsibilities.”
- Removed text regarding criteria for Flame Act funding in the WFDSS Initial Decision.
- Clarified existing text regarding requirements triggering submission of an ICS-209, and inserted text requiring submission of an ICS-209 when a NIMO is assigned.
- Inserted text regarding IC responsibility for suppression repair (see “Post-Fire Activities” Table).
- Inserted text regarding “Funding Type” for emergency stabilization and rehabilitation (see “Post-Fire Activities” Table).
- Clarified existing text regarding title of individual responsible for USFS national level approval for emergency stabilization (see “Emergency Stabilization Approval Authorities” Table).
- Clarified existing text regarding DOI and USFS Burned Area Emergency Response (BAER) teams.

### Chapter 12 – Suppression Chemicals and Delivery Systems

- Updated website for Forest Service avoidance area maps.

### Chapter 13 – Firefighter Training and Qualifications

- Inserted the website for the Forest Service *Fire and Aviation Qualification Guide* (FAQG) throughout the chapter.
- Inserted text regarding, “Federal agencies will accept each other’s qualifications/certifications, regardless of jurisdiction and throughout the duration of the incident.”
- Clarified existing NPS text regarding IQCS account managers will have an IQCS Delegation of Authority from the certifying official.
- Added BLM to agencies requiring IQCS account managers to have an IQCS Delegation of Authority from the certifying official.
- Removed NPS text requiring, “... two or more qualified assignments be accomplished in a position before an individual may become a position performance evaluator,” and exceptions and subordinate unit leader positions.

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**EXHIBIT 7**

## 2016 EXECUTIVE SUMMARY OF CHANGES

- Removed existing NPS text regarding 8 hours for the annual fireline safety refresher training and added NPS to the list of agencies that have no minimum hourly requirement.
- Removed text referencing "FireFit" and replaced with "Interagency Fire Fitness Program in the USFS WCT Implementation Guide."
- Clarified text regarding FWS physical fitness and conditioning reference.
- Inserted text for the USFS to reference the WCT Implementation Guide for Medical Examination and Work Capacity Tests.
- Clarified text regarding established medical qualifications provide consistent medical standards for arduous positions.
- Inserted text regarding USFS submission requirements of OF-178 for light and moderate fitness level positions.
- Clarified text regarding three opportunities total for permanent employees for Work Capacity Test retesting.
- Inserted text regarding, "Smokejumper medical standards are the same as the Federal Interagency Wildland Firefighter Medical Standards-Arduous Duty Wildland Firefighter."
- Inserted BLM bullet to reference Chapter 2 for smokejumper physical fitness standards.
- Clarified text regarding the primary mission of a Wildland Fire Module.
- Inserted text regarding FWS chainsaw operators and fallers evaluator qualification requirements for position task books.
- Clarified existing text that the new Forest Service Manual (FSM 2358) is anticipated for release in early 2016.
- Removed USFS text regarding the MTDC Chain Saw or Crosscut Saw Training Course 0667-2805.

### Chapter 14 – Firefighting Equipment

- Removed text regarding NPS gross vehicle weight annual certified weight slip procedures.
- Inserted text regarding FWS policy document for Emergency Light Use.
- Inserted USFS policy document FSH 5109.16 regarding Emergency Light Use.
- Inserted minor subheading "Mobile Attack (Pump and Roll)."
- Moved existing text regarding Operational Procedures for BLM Firefighting Engines to an agency-specific bullet.
- Clarified existing text regarding fire engine staffing requirements for Type 4, 5, 6, and 7.
- Moved existing text regarding FWS-specific requirements for Type 6 and 7 engines under Fire Engine Staffing for Type 4, 5, 6, and 7 engines.
- Changed minor subsection from "Water Tender Staffing Standards" to "Water Tender Qualifications and Staffing Standards."
- Inserted text regarding dozer and tractor plow experience requirement.
- Removed all agency-specific requirements regarding Dozer/Tractor Plow Physical Fitness Standards.
- Removed existing text regarding BLM requiring a 10 lb. class BC fire extinguisher for UTVs.
- Clarified existing text regarding ATV and UTV helmet standards.
- Clarified text regarding ATV/UTV PPE requirements for NFPA 1977 flame resistant shirts and trousers.
- Clarified existing BLM-specific reference for ATV/UTV policy.
- Inserted BLM text referencing Washington Office Instruction Memorandum No. 2015-136, *Transporting Utility Terrain Vehicles (UTVs) in Pick-up Trucks*.
- Inserted BLM-specific text regarding fire extinguisher requirement for UTVs equipped with a ground ignition device.
- Removed USFS direction (i.e. FSH 5109.32a) in regards to Ground Ignition Devices and Transporting/Dispensing Fuel.

### Chapter 15 – Communications

- Deleted existing text regarding BLM and FWS GPS datum and coordinate standard under Radio Communications. Moved information to Chapter 2 and Chapter 4, respectively.

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EXHIBIT 7

## 2016 EXECUTIVE SUMMARY OF CHANGES

- Clarified existing text regarding permission required to use National Interagency Fire Tactical Frequencies.

### Chapter 16 – Aviation Operations/Resources

- Inserted text regarding NPS National Office Organizational Responsibilities.
- Clarified existing text regarding USFS Branch Chief, Pilot Standardization responsibilities.
- Inserted text regarding NPS Regional Aviation Manager responsibilities.
- Inserted text regarding NPS Unit or Park Aviation Manager responsibilities.
- Inserted, removed, or updated USFS policy reference documents throughout Chapter 16.
- Inserted specific USFS text referencing FSM 5700 and employee use of an operational risk management process prior to every flight under Risk Assessment and Risk Management
- Removed existing text regarding “FAR” and inserted “14 CFR.”
- Inserted major subsection “Unmanned Aircraft Systems.”
- Inserted some BLM units have MOUs with local military airspace authorities for airspace coordination.
- Removed BLM reference document under Flight Request and Approval.
- Inserted USFS text regarding Special Use Mission Flights.
- Inserted night air tactical operations text to the list of mission flights for fixed-wing aircraft and helicopters.
- Inserted short-haul operations text to the list of mission helicopter flights.
- Inserted text adding maintenance crew members to Interim Flight and Duty Limitations Implementation, Phase 1.
- Inserted text regarding aviation manager’s actions to consider during Phase 1 Duty Limitations.
- Inserted text regarding, “All FS aircraft (agency-owned, exclusive use, leased and CWN) are available to move to areas of greatest agency need, thereby maximizing efficiency and effectiveness. Forest Service units are expected to adhere to procedures established in policy for acquisition and use reporting.”
- Clarified existing text regarding the USFS short-haul operations policy document.
- Clarified existing text regarding federal contracted airtankers are national resources.
- Clarified existing text regarding airtanker owners and operators.
- Inserted text regarding the BLM NAP contains governance requirements for airtankers.
- Clarified existing text regarding USFS governance of airtankers.
- Removed water scoopers under Airtanker Types.
- Inserted text regarding Airtanker Rotation including rotation of State airtankers.
- Inserted text regarding Canadian airtankers.
- Inserted text regarding Loading Operations of USFS airtankers under Airtanker Base Operations.
- Clarified existing text regarding Cooperator Aircraft.
- Inserted text regarding USFS-specific requirements for Cooperator Aircraft.
- Removed existing major subsection “Interagency Fire Use of Unmanned Aircraft Systems (UAS),” and moved text under major subsection “Unmanned Aircraft Systems.”

### Chapter 17 – Fuels Management

- Updated existing text to reflect terminology change “Hazardous Fuels Reduction (HFR)” to “Fuels Management (FM).”
- Changed major subsection from “Reporting HFR Accomplishment” to “Reporting Fuels Management Accomplishments.”
- Clarified existing text that all agencies have policy in regards to Reporting Fuels Treatment Effectiveness Monitoring.
- Inserted BLM-specific requirements for Reporting Fuels Treatment Effectiveness Monitoring.
- Changed major subsection from “Policy Regarding Planned HF Treatments Burned in a Wildfire” to “Regarding Planned Fuels Treatments Burned in a Wildfire.”
- Clarified and inserted text regarding what DOI agencies may report as “Fire Use” in NFPORS.
- Clarified USFS-specific text regarding conditions for “Fire Use” accomplishment reporting.

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## 2016 EXECUTIVE SUMMARY OF CHANGES

- Changed major subsection from “DOI Reporting of Wildfire Acres That Meet Resource Management Objectives” to “Reporting of Wildfire Acres That Meet Resource Management Objectives.”
- Clarified existing text from “Resource Management Plan (RMP)” to “Land and Resource Management Plan (LRMP).”
- Inserted text regarding FWS and USFS-specific requirements for Reporting of Wildfire Acres That Meet Resource Management Objectives.
- Clarified text regarding Prescribed Fire During Preparedness Levels 4 and 5 and inserted agency-specific requirements.
- Inserted text that, “Contractors must meet NWCG 310-1 qualification requirements and agency standards for specific skill positions for prescribed fire operations.”
- Changed major subsection from “Non-Prescribed Fire HFR Activities” to “Non-Fire Fuels Management Activities.”

### Chapter 18 – Reviews and Investigations

- Updated existing text to reflect terminology change from “Escaped Prescribed Fire Review” to “Declared Wildfire Review.”
- Clarified existing text regarding Rapid Lesson Sharing.
- Removed existing text that Serious Accident Investigation (SAI) and Accident Investigation (AI) 24- and 72-hour reports may include posting through the NWCG Safety Alert System.
- Inserted text that the fire safety/risk management lead will provide a copy of SAI and AI 24- and 72-hour reports to the Wildland Fire Lessons Learned Center.

### Chapter 19 – Dispatch and Coordination System

- Clarified existing text regarding Service and Supply Plan will contain current copies of competitive Incident Blanket Purchase Agreements (I-BPAs) and source lists for incident-only agreements.
- Clarified Continuity of Operations Plan (COOP) requirements under Dispatch/Coordination Center Administration.
- Clarified existing text regarding NICC Functional Responsibilities for Management of National Aviation Resources.
- Inserted text that local dispatch centers utilize Computer Aided Dispatch (CAD) and Geographic Information System (GIS) products.
- Inserted text for local dispatch centers regarding NMAC establishment of incident name protocols.
- Inserted text regarding each local dispatch center having documented procedures established for dispatching aviation resources.
- Updated existing text to reflect terminology change from “Medical Emergency Plan” to “Medical Emergency Response Plan.”

### Appendices

- Clarified existing text in Appendix K (Interim NWCG Minimum Standards of Incident Emergency Medical Services) for flow and clarity.
- Clarified existing text in Appendix N (Wildland Fire Decision Support System Information) to reflect recent system updates, inserted information for two new subsections (tabs), and added a website for current refresher and training materials.
- Inserted text in Appendix P (Local Mobilization Guide/Dispatch Operating Plan) regarding inclusion of incident name protocols in Initial Attack/Response Plans.
- Clarified text in Appendix P (Local Mobilization Guide/Dispatch Operating Plan) regarding Service and Supply Plan will contain current copies of competitive Incident Blanket Purchase Agreements (I-BPAs) and source lists for incident-only agreements.
- Moved Service and Supply Plan references under Required Reference Materials in Appendix P (Local Mobilization Guide/Dispatch Operating Plan).

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**EXHIBIT 7**

## Risk Management

### Identify Hazards (Situation Awareness)

- Gather Information
  - ☐ Objective(s)
  - ☐ Communication
  - ☐ Who's in Charge
- Scout the Fire
- ☐ Previous Fire Behavior
- ☐ Weather Forecast
- ☐ Local Factors

### Assess Hazards

- Estimate Potential Fire Behavior Hazards
  - ☐ Look Up/Down/Around Indicators
- Identify Tactical Hazards
  - ☐ Watch Outs
- As conditions change, what other safety hazards are likely to exist?
- Consider probability versus severity?

### Develop Controls and Make Risk Decisions

- Develop control measures that reduce risk:
  - ☐ Firefighting Orders → LCES
    - Anchor Point
    - Downhill Checklist (if applicable)
  - ☐ What other controls are necessary?
    - Engineering/Administrative
    - PPE
    - Educational
    - Avoidance
  - ☐ Emergency Medevac Procedures/Plan
- Are controls in place to mitigate risk?
  - ☐ NO - Reassess situation
  - ☐ YES - Next question
- Are selected tactics based on expected fire behavior?
  - ☐ NO - Reassess situation
  - ☐ YES - Next question
- Have instructions been given and understood?
  - ☐ NO - Reassess situation
  - ☐ YES - Next question
- Consider risk versus gain

### Implement Controls

- Ensure controls are in place and being implemented by personnel.
- Ensure controls are integrated operational plan and understood at all levels.

### Supervise and Evaluate

- Are controls adequately mitigating the hazards?
  - ☐ NO – Reassess and consider:
    - Human Factors:
      - Low experience level?
      - Distracted from primary tasks?
      - Fatigue or stress reaction?
      - Unsafe attitude?
    - The Situation:
      - What is changing?
      - Are strategy and tactics working?

If situation changes significantly, restart Risk Management Process at the appropriate step.

## **Standard Firefighting Orders**

1. Keep informed on fire weather conditions and forecasts.
2. Know what your fire is doing at all times.
3. Base all actions on current and expected behavior of the fire.
4. Identify escape routes and safety zones and make them known.
5. Post lookouts when there is possible danger.
6. Be alert. Keep calm. Think clearly. Act decisively.
7. Maintain prompt communications with your forces, your supervisor and adjoining forces.
8. Give clear instructions and insure they are understood.
9. Maintain control of your forces at all times.
10. Fight fire aggressively, having provided for safety first.

## **Watch out Situations**

1. Fire not scouted and sized up.
2. In country not seen in daylight.
3. Safety zones and escape routes not identified.
4. Unfamiliar with weather and local factors influencing fire behavior.
5. Uninformed on strategy, tactics, and hazards.
6. Instructions and assignments not clear.
7. No communication link with crew members/supervisor.
8. Constructing fireline without safe anchor point.
9. Building fireline downhill with fire below.
10. Attempting frontal assault on fire.
11. Unburned fuel between you and fire.
12. Cannot see main fire, not in contact with anyone who can.
13. On a hillside where rolling material can ignite fuel below.
14. Weather is getting hotter and drier.
15. Wind increases and/or changes direction.
16. Getting frequent spot fires across line.
17. Terrain and fuels make escape to safety zones difficult.
18. Taking nap near fireline.